

1998 ANNUAL MONITORING REPORT
INTERIM REMOVAL ACTION
LINEMASTER SWITCH CORPORATION
WOODSTOCK, CONNECTICUT

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EXECUTIVE SUMMARY

This report presents and summarizes the 1998 monitoring program related to the Interim Removal Action (IRA) program being conducted at the Linemaster Switch Corporation site, in Woodstock, Connecticut. The IRA was initiated in June 1992 to control the migration of volatile organic compounds (VOCs) in the deep bedrock aquifer underlying the site. Groundwater is extracted from six deep bedrock wells and treated by air stripping and granular activated carbon polishing. The monitoring program at the site is designed to evaluate the hydraulic influence of the IRA extraction wells and the mitigation of the groundwater plume.

The IRA system treated over 22 million gallons of water during 1998. Approximately 55 pounds of VOCs, including 0.6 pounds of trichloroethene (TCE) were removed from the groundwater during 1998. To date, 774 pounds of TCE and 962 pounds of VOCs have been removed from the 170 million gallons of groundwater extracted from the deep bedrock aquifer.

The 1998 potentiometric head elevations and groundwater flow patterns indicate that the IRA deep bedrock extraction system has been successful in establishing and maintaining hydraulic control in both the shallow and deep bedrock aquifers. In the deep bedrock aquifer, there has been a significant decrease in the extent and magnitude of TCE contamination. TCE concentrations in all the shallow bedrock monitoring wells on-site also have decreased, except for those that are located near deep bedrock pumping wells.

Groundwater levels in many wells screened in the unconsolidated deposits have been lowered by the deep bedrock pumping. TCE concentrations and the areal extent of the TCE plume have decreased east and southeast of the source area relative to pre-IRA conditions. Domestic supply well sampling results indicate that the TCE groundwater plume continued to be fully contained on the Linemaster site.

The on-going effort to remediate the source area (Phase 1A Area) located immediately east of the main facility continued in 1998. The Phase 1A Area groundwater recovery system began operation in April 1998. Dual vacuum extraction (DVE) began in December 1998. These activities are documented in monthly progress reports submitted to EPA.

Based on information obtained during the 1998 monitoring program, recommendations include:

- Continue operation of the IRA to prevent off-site migration of VOCs.
- Modify the current groundwater and surface water monitoring program to:
 1. Reduce the sampling frequency from quarterly to semi-annual at the surface water monitoring locations.
 2. Reduce the sampling frequency of the remaining residential wells currently monitored quarterly to semi-annual, except for GW-08db (Linemaster facility water supply well) and GW40db (Town Hall well).

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1.0 INTRODUCTION

This document is the 1998 Annual Report for the Interim Removal Action (IRA) program being conducted at the Linemaster Switch Corporation site. The purpose of this report is to document results of monitoring activities conducted at the site during calendar year 1998 and to present a current evaluation of the IRA effectiveness. This report has been prepared in accordance with the *Interim Removal Action, Revised Start-up Monitoring Plan* (Fuss & O'Neill, Feb. 1993).

The IRA was initiated on June 2, 1992 to control the migration of volatile organic compounds (VOCs) in the deep bedrock aquifer underlying the site. The objectives of this report are to:

- examine the hydraulic effects induced by the IRA on the deep bedrock, shallow bedrock, and unconsolidated deposits aquifers
- evaluate VOC concentration trends during the course of IRA operation
- assess the continued effectiveness of the IRA in controlling the migration of VOC- impacted groundwater

Results of the historical monitoring of the IRA previously were summarized in the six-month IRA monitoring report dated February 1993, and subsequent Annual Monitoring Reports (Fuss & O'Neill, November 1993, January 1995, February 1996, February 1997, February 1998).

2.0 SITE DESCRIPTION AND HISTORY

The Linemaster Switch Corporation site is located on Plaine Hill Road in Woodstock, Connecticut (Figure 1). It is bounded on the north and east by property owned by Nancy Blakely, on the west by Plaine Hill Road, and on the south by State Route 171. The Linemaster property, consisting of approximately 45 acres, is moderate to extreme in relief. The relief is most extreme near the center of the property adjacent to the production facility and lessens toward the property boundaries. Exposures of bedrock are present south and east of the central topographic high.

Linemaster Switch Corporation began manufacturing foot-operated switches at the site on May 1, 1952. As part of Linemaster manufacturing operations, paint thinner, trichloroethene (TCE), and other chemicals were used. Information suggests that TCE and paint thinner were released to a dry well located directly east of the facility. Reportedly, the release may have occurred during the time period from approximately 1969 through 1979 (Murtha et al., 1988).

Groundwater at the site is classified as GA by the Connecticut Department of Environmental Protection (DEP, 1996). This classification is for "Groundwater within the area of existing private water supply wells or an area with the potential to provide water to public or private water supply wells. The Department presumes that groundwater in such an area is, at a minimum, suitable for drinking or other domestic uses without treatment."

3.0 DESCRIPTION OF INTERIM REMOVAL ACTION

The IRA currently consists of six deep bedrock groundwater extraction wells: MW-01db, MW-06db, MW-14db, MW-15db, MW-17db, and GW-10db as shown on Figure 2. The pump depths and flow rates for each well are provided in Table 1. Extracted groundwater is treated in the Interim Removal Treatment System (IRTS) building via air stripping followed by granular activated carbon (GAC) filtration as a polishing step. After treatment, the groundwater is discharged to Pond 3, located east of the site as shown on Figure 2. Pond 3 drains into an unnamed stream, located east of the site, at a point upstream of where the unnamed stream drains into Pond 1. A discussion of the IRTS initial operating period was provided in the *Interim Removal Treatment System, Summary Progress Report* (Fuss & O'Neill, July 1992). The Linemaster water supply well, GW-08db, is located in the southern portion of the site and also draws from the deep bedrock aquifer. Water from this well is treated by a separate air stripper and GAC filter. The treated water is used for drinking, sanitary systems and industrial cooling.

The on-going effort to remediate the source area (Phase 1A Area) located immediately east of the main facility continued in 1998. The Phase 1A Area groundwater recovery system began operation in April 1998. Dual vacuum extraction (DVE) began in December 1998. These activities are documented in monthly progress reports submitted to EPA.

4.0 SITE-WIDE MONITORING PROGRAM

The existing site-wide monitoring program provides data to evaluate the hydraulic influence of the IRA and to evaluate the mitigation of the groundwater plume with time. As discussed in the following sections, the elements of the program include:

- water-level measurements
- monitoring and extraction well sampling
- surface water sampling
- domestic water-supply well sampling

4.1 Water-Level Measurements

Groundwater levels were measured monthly during 1998 at groundwater extraction and monitoring wells in accordance with the *Interim Removal Action, Revised Start-up Monitoring Plan* (Fuss & O'Neill, 1993). Monitoring well and extraction well level data are converted to groundwater elevations. A summary of water levels and groundwater elevations from January 1998 through December 1998 is included in Appendix A. A summary of monitoring well construction details is provided in Table 2.

4.2 Groundwater Sampling

The IRA deep bedrock groundwater extraction wells have been sampled on a monthly frequency since the IRA began on June 2, 1992 as prescribed in the *Interim Removal Action, Revised Start-up Monitoring Plan* (Fuss & O'Neill, 1993). Those samples are analyzed for VOCs by EPA Methods 8010 and 8020.

Non-pumping deep bedrock monitoring wells were sampled quarterly during 1998. Shallow bedrock and unconsolidated deposits monitoring wells were sampled in November 1998. Samples collected from non-pumping deep bedrock, shallow bedrock and unconsolidated deposits monitoring wells were analyzed for VOCs by EPA Methods 524.2 or 8260b. Method 524.2 was used for samples collected from wells with historically low or non-detected VOC concentrations. Method 8260b was used to analyze samples collected at wells with historically elevated VOC concentrations.

4.3 Domestic Water Supply Well Sampling

The current program includes sampling of 37 domestic water supply wells. Locations are shown on Figure 2. Twelve wells were sampled on a quarterly basis, twenty were sampled semi-annually, and five were sampled on an annual basis. The samples collected were analyzed for VOCs by EPA Method 524.2.

4.4 Surface Water Sampling

Twelve surface water locations on and adjacent to the site were monitored on a quarterly basis (Figure 2). Samples were analyzed for VOCs by EPA Method 524.2.

5.0 MONITORING RESULTS AND DISCUSSION

5.1 Pumping Rates

pumping rates for each bedrock extraction well have been established according to both site hydrogeology and influence on neighboring residential supply wells. With the exception of MW-14db, the pumping rates for the extraction wells ranged from approximately 1 to 9 gallons per minute (gpm) during 1998 (Table 1). The pump in MW-14db operated continuously at approximately 20 gpm. GW-08db, the facility supply well, pumps at approximately 27 gpm. The pump in GW-08db operates semi-continuously during facility operation and less frequently after working hours when the demand is limited to non-industrial use.

Similar deep bedrock pumping rates have historically created sufficient hydraulic influence to contain the groundwater VOC plume.

5.2 VOC Mass Removal

VOC mass removal by the IRTS during the calendar year 1998 is evaluated here and combined with previously reported data in Table 3. The TCE and total VOC concentrations shown in Table 3 are computed from samples collected from the IRTS air stripper influent. Flow rates were determined from weekly IRTS inspection reports.

The air stripper influent represents the combined flow of the six IRA extraction wells and a dry well (sump) located adjacent to the IRTS building that is pumped to control high groundwater levels. The mass of VOCs removed was calculated from the results of each monthly sampling event. The total amount of TCE and VOCs removed per month was calculated by multiplying the TCE and total VOC (summation of individual VOCs including TCE) concentrations detected in the air stripper influent sample by the monthly cumulative flow for the event.

The amount of TCE and total VOCs removed from January 1998 through December 1998 are approximately 0.6 and 55 pounds, respectively. Total pounds of TCE removed in 1998 has decreased sharply since 1997. Total pounds of VOCs removed has been decreasing since 1994.

Since initiation of the IRA, approximately 774 and 963 pounds of TCE and VOCs have been removed, respectively. More than 22 million gallons of groundwater were treated from January 1998 to December 1998. Approximately 170 million gallons have been extracted and treated since IRA operation began in 1992.

5.3 Hydraulic Influence

The IRA extraction well network induces hydraulic influence by withdrawing water from the deep bedrock aquifer, causing a significant decrease in the potentiometric surface at and in the vicinity of each extraction well.

Hydraulic influences induced by the IRA have been identified to estimate the capture zone of the IRA system. The outer limit of the capture zone marks the boundary between water that will or will not be drawn to the pumping wells. To estimate the extent of the capture zone associated with the bedrock extraction wells, the potentiometric surfaces of the deep bedrock, shallow bedrock and unconsolidated deposits aquifers were contoured based on site-wide water-level measurements of wells screened within each aquifer.

The contour maps provided in this report are based on November 1998 water-level data. Additionally, flow nets were prepared using November 1998 measurements to allow consideration of both horizontal and vertical flow potentials. For comparison, flow nets representing pre-IRA conditions are provided. Flow nets and contour maps are based strictly on hydraulic head data without consideration of fracture or discontinuity orientation.

The ensuing sections discuss the effects of IRA pumping in each aquifer during 1998. To provide a frame of reference, each section begins with a brief description of pre-IRA conditions. Subsequently, 1998 conditions are discussed relative to 1997 and earlier historical effects.

5.3.1 Deep Bedrock Aquifer

Pre-IRA Conditions

Groundwater flow prior to the initiation of the IRA was partially radial near the Linemaster facility and generally to the east and southeast in the eastern portion of the site. South of the facility, the facility production well (GW-08db) was observed to have depressed the potentiometric surface in a northerly oriented elliptical pattern.

1998 Effects and Trends

Extraction well pumping in 1998 continued to induce water-level declines in all deep bedrock monitoring wells. This indicates that a significant degree of hydraulic connection is present within the deep bedrock aquifer. Comparing pre-IRA water levels (April 27, 1992) with data collected during 1998, the most pronounced decreases in water levels at non-pumping wells in the deep bedrock have occurred at MW-29db, MW-27db and MW-11db. At these locations, the potentiometric surface has been lowered 40 to 65 feet below pre-IRA levels. Water levels in the remaining deep bedrock monitoring wells were 5 to 40 feet below pre-IRA water levels.

Figure 3 shows the deep bedrock potentiometric surface on November 2, 1998 as influenced by groundwater withdrawal from the six extraction wells and the facility production well. The potentiometric surface contours depict a capture zone that includes all areas of the site downgradient of the contaminant plume source area. The northern extraction wells create a small zone of convergent flow in the vicinity MW-15db and a larger area of convergent flow in the central portion of the site, drawing water from most areas of the property. MW-14db influences the southeastern portion of the site, drawing water from the east as far away as GW-36db. GW-10db and GW-08db influence the western and south-central portions of the site, respectively.

The deep bedrock potentiometric contours and groundwater flow potentials observed in November 1998 are consistent with 1997 and historical data.

5.3.2 Shallow Bedrock Aquifer

Pre-IRA Conditions

Pre-IRA flow potentials in the shallow bedrock aquifer indicated radial flow away from the topographic high on which the facility is located. The hydraulic gradient was steepest to the southeast and to the north.

1998 Effects and Trends

Water levels measured in most of the shallow bedrock monitoring wells during 1998 were approximately 1 to 15 feet lower than pre-IRA conditions. Water levels at wells MW-01sb and MW-15sb, located directly adjacent to deep bedrock pumping wells, have been lowered 50 to

65 feet. This response indicates that a strong hydraulic connection between the deep and shallow bedrock exists in the northern portion of the site. A similar response of lower magnitude at the other deep bedrock pumping wells indicates a lesser hydraulic connection between the deep and shallow bedrock. Water levels at shallow bedrock monitoring wells located more distant from the deep bedrock pumping wells decreased less than at shallow bedrock monitoring wells located closer to extraction wells.

The shallow bedrock potentiometric surface on November 2, 1998 is shown on Figure 4. IRA operation has influenced the shallow bedrock groundwater potentiometric surface most significantly in the northern portion of the site, where the flow potential is toward MW-01db and MW-15db. Although the potentiometric surface has been lowered in the central-eastern and southeastern portions of the site, groundwater flow potentials have not been changed relative to pre-IRA conditions.

Shallow bedrock potentiometric contours and groundwater flow potentials observed in November 1998 are consistent with 1997 and historical data.

5.3.3 Unconsolidated Deposits Aquifer

Pre-IRA Conditions

Groundwater flow in the unconsolidated deposits prior to IRA start-up was radially outward from the central topographic high upon which the Linemaster manufacturing facility building is located. Also, based on the groundwater elevation measured at well MW-26t, an angled well screened beneath the facility, the groundwater contours indicated a hydraulic low (water table depression) existed beneath the manufacturing facility building. This feature indicated a westward and northwestward horizontal hydraulic gradient to the west of the former dry well location. The depressed water table beneath the building is most likely caused by limited surficial recharge due to the presence of the building and the adjacent impermeable paved parking areas.

1998 Effects and Trends

Groundwater elevation contours on November 2, 1998 are shown on Figure 5. IRA operation has influenced groundwater elevations and groundwater flow in the northern portion of the site where flow has been directed toward well MW-15t. This flow direction is due to pumping at MW-15db, and indicates a strong hydraulic connection between the unconsolidated deposits, shallow bedrock, and deep bedrock aquifers in this area.

Deep bedrock pumping has depressed the water table in many wells screened in the unconsolidated deposits. However, these changes are generally less than those attributed to seasonal fluctuations. Water levels change as much as 10 to 14 feet annually due to seasonal recharge. The two exceptions to this are at wells MW-15t and MW-27t, where water levels were 55 and 30 feet lower in 1998, respectively, than before IRA operation began.

With the exception of the Phase 1A Area, immediately east of the main facility, where the effects of unconsolidated deposits recovery well pumping are apparent, groundwater elevation contours and inferred groundwater flow directions observed in November 1998 are consistent with 1997 and historical data.

5.3.4 Flow Nets

Where as the previously discussed contour maps depict groundwater flow or potentials in plan view, flow nets illustrate flow potentials in cross-section. As a result, flow nets enable consideration of both horizontal and vertical flow potentials and the relationships between the different aquifers.

Flow nets are constructed on cross-sectional profiles by posting and contouring hydraulic head at the mid points of the screened or open intervals. The water table surface is an upper bounding surface and is inferred from water-levels measured at the wells screened in the unconsolidated deposits. Contouring of the posted potentiometric head data results in lines representing equal potential (equipotential lines). Flow paths are determined by drawing lines perpendicular to the equipotential lines. An inherent limitation of flow nets is that flow is represented only in a vertical plane. To partially address this limitation, approximately perpendicular transects were selected to be represented in the flow nets. Similar to the potentiometric surface contour maps, the inferred groundwater flow paths shown represent flow based strictly on hydraulic head data without consideration of fracture or discontinuity orientation.

Hydraulic head data from several well clusters recorded during November 1998 have been presented and contoured as equipotential lines on two flow nets (A-A': Figure 6 and B-B': Figure 7). For comparison, Figures 8 & 9 depict pre-IRA equipotential lines and flow paths along the same cross sections shown in Figures 6 & 7. Lines of cross section for the A-A' and B-B' flow nets are shown on Figure 2.

The two flow nets based on November 2, 1998 data in Figures 6 & 7 indicate that as a result of the IRA deep bedrock groundwater extraction system, the flow potential is from all portions of the unconsolidated deposits and shallow bedrock aquifers toward the deep bedrock extraction wells. Additionally, flow lines indicate that groundwater flow from both on-site and adjacent off-site areas converges toward the deep bedrock recovery wells.

The effect of IRA pumping is quite obvious when Figures 6 & 7 are compared to the pre-IRA flow nets in Figures 8 & 9. Pre-IRA flow nets indicate that downward vertical flow potential was greatest in the vicinity of the central topographic high with lateral flow potential increasing and becoming more dominant near the site boundaries.

The 1998 flow nets demonstrate that the deep bedrock groundwater extraction system has created significant potential for groundwater in the unconsolidated deposits or shallow bedrock aquifer to flow downward and converge at deep bedrock extraction wells. As discussed in

Section 5.4, hydraulic control of the VOC plume is confirmed by recent and historical water quality data.

5.4 VOC Concentration Trends

Summaries of detected VOCs during 1998 at deep bedrock extraction wells, deep bedrock monitoring wells, shallow bedrock monitoring wells, unconsolidated deposits monitoring wells, domestic wells and surface water sampling locations are provided in Appendices B, C, D, E, F and G, respectively.

VOC and TCE concentration trends are evaluated using sampling data collected prior to and after initiation of the IRA and are presented graphically in Appendices H and I. Appendix H includes VOC and TCE concentration graphs for the deep bedrock extraction wells. Appendix I includes VOC and TCE concentration graphs for monitoring wells that had total VOC concentrations greater than 1,000 ug/l at any time prior to or after IRA operation. This concentration (1,000 ug/l) was selected as a lower cut-off value to specifically observe how operation of the IRA has affected groundwater quality in the most impacted areas of the site.

TCE is the primary VOC detected in groundwater samples collected at the site as evidenced by the concentration graphs included in Appendices H and I. November 1998 TCE concentration isopleths for deep bedrock, shallow bedrock and unconsolidated deposits aquifers are presented in Figures 10, 11 and 12, respectively.

5.4.1 Deep Bedrock Aquifer

TCE concentrations in the deep bedrock aquifer prior to the activation of the IRA (April 1992) were highest in the vicinity of the Linemaster facility. TCE concentrations greater than 100 ug/l extended northeast to the vicinity of well MW-11db, north to the vicinity of wells MW-01db and MW-15db and south to the vicinity of well GW-08db. VOC migration toward the north and northeast most likely was due to the natural hydraulic gradient and preferential migration in the bedrock fractures. Contaminant migration to the north also may have been influenced in the past by pumping of the Blakely residence's former water supply well, GW-12db. This well has not been pumped since before IRA start-up. TCE migration to the south was influenced by the operation of Linemaster's production well, GW-08db.

Figure 8 represents TCE concentrations in the deep bedrock aquifer during November 1998. Significant reductions in TCE concentrations in the facility production well, GW-08db, and in wells MW-01db, MW-11db, and MW-21db have occurred since 1992 (see graphs, Appendix H). The extent of the TCE plume is slightly less but similar to 1997.

Samples have been collected from the non-pumping deep bedrock wells by bailer since the start of the IRA. Samples from the extraction wells are collected from sampling ports in the IRA treatment building. Samples collected prior to the IRA at the deep bedrock wells were collected by packers from discrete intervals in the wells. To graph both the pre-IRA and IRA data

together, the packer data were adjusted using a weighted average based on the hydraulic conductivity of each sampled zone. Graphs were constructed using total VOC (summation of individual VOC detects) and TCE concentration data.

Extraction Wells

Well GW-10db, located beneath the manufacturing facility, is the extraction well that historically has exhibited the highest VOC concentrations. Total VOC concentrations have ranged from less than 5,000 ug/l to greater than 40,000 ug/l. Analytical data from the past two years indicate a continued decrease in TCE concentrations. Concentrations of cis-1,2-dichloroethene, a degradation product of TCE have been greater than TCE concentrations at the well since mid-1997. However, a comparison of 1997 and 1998 results also indicates a decrease in concentrations of cis-1,2-dichloroethene (cis-1,2-DCE) since late 1997.

Since activation of the IRA, total VOC concentrations in extraction well MW-01db have decreased from approximately 350 ug/l to less than 30 ug/l currently. Detected VOC concentrations decreased from 1997 and also decreased in 1998 from approximately 25 ug/l to 15 ug/l.

Total VOC concentrations in extraction well MW-06db were as high as 3,000 ug/l, but have decreased to less than 150 ug/l. Analytical results from 1998 indicate that TCE concentrations at MW-06db have been steady since 1997.

Prior to operation of the IRA, the total VOC concentration in extraction well MW-17db was 4,000 ug/l. As of December 1998, the total VOC concentration has decreased to less than 250 ug/l. TCE and total VOCs concentrations have been steady from 1997 to 1998.

VOCs have consistently not been detected at extraction well MW-14db. Very low VOC concentrations (less than 7 ug/l) were detected prior to IRA operation. TCE was detected for the first time at this well since 1994 in December 1998 at a concentration of 6.4 ug/l.

Since IRA start-up, the concentration of VOCs in extraction well MW-15db has generally ranged from 100 to 400 ug/l. The TCE concentrations at MW-15db during 1998 ranged from 140 ug/l to 190 ug/l. This range of concentrations is consistent with 1997 results.

Although not part of the IRA network, GW-08db, the facility supply well, draws from the deep bedrock aquifer. Samples from well GW-08db exhibited VOC concentrations as high as 9,000 ug/l prior to IRA operation. VOC concentrations during 1998 ranged from 15 ug/l (December) to 734 ug/l (June). TCE concentrations have remained consistent at the well during 1997 and 1998. Other VOCs detected at GW-08db during 1998 include cis-1,2-dichloroethene, acetone, 2-butanone (MEK) and tetrahydrofuran.

VOC concentrations detected in 1998 in the deep bedrock extraction wells are summarized in Appendix B.

Monitoring Wells

Non-pumping deep bedrock monitoring wells at the site include GW-12db, MW-08db, MW-11db, MW-12db, MW-13db, MW-18db, MW-21db, MW-27db and MW-29db. VOC concentrations greater than 1,000 ug/l have been detected at wells GW-12db, MW-21db and MW-27db during at least one sampling event.

At well GW-12db, the former supply well for the Blakely residence, total VOC concentrations have fluctuated from 2,000 to nearly 12,000 ug/l throughout the period of monitoring. VOC concentrations during 1998 ranged from 4,470 ug/l (November) to 6,000 ug/l (February). Total VOC concentrations detected in 1998 were within historical ranges. 1999 TCE data reflects a continuation of a long-term decreasing concentration trend. Cis-1,2-dichloroethene concentrations have been greater than TCE concentrations since August 1997.

The VOC concentration at MW-21db was greater than 1,500 ug/l prior to IRA start-up, but has remained consistently below 500 ug/l since January 1993 and has been below 50 ug/l during 1997 and 1998. Total VOC concentrations at MW-21db in 1998 ranged from 21.5 ug/l to 28 ug/l. TCE concentrations have been steady in 1997 and 1998.

Total VOC concentrations in groundwater samples collected from MW-27db have fluctuated from below detection limits to greater than 50,000 ug/l during IRA start-up. Total VOC concentrations were less than 50 ug/l between 1992 and mid 1996. VOCs have not been detected at MW-27db since August 1996.

TCE concentrations have increased at MW-28db since 1997. Historical data also indicate a slight long-term increasing concentration trend.

VOC concentrations detected in 1998 in the deep bedrock monitoring wells are summarized in Appendix C.

5.4.2 Shallow Bedrock Aquifer

Prior to IRA start-up, the highest TCE concentrations historically were present in the vicinity of the facility building. TCE concentrations greater than 100 ug/l extended to the east and northeast to the vicinity of wells MW-06sb and MW-09sb.

Soon after IRA operation began, the TCE impacted area in the shallow bedrock aquifer decreased in size to the east, but expanded to the northwest to the vicinity of well MW-15sb (Figure 11). This change in TCE distribution likely was caused by the pumping of well MW-15db, which draws groundwater with higher TCE concentrations from the vicinity of the building toward the north and northwest and the strong hydraulic connection between the deep bedrock and shallow bedrock in this area.

Monitoring well MW-01sb was dry in November 1998; no sample could be collected. Monitoring well MW-32sb was damaged in 1997 and could not be sampled; however, VOC concentrations at MW-32sb in 1995 and 1996 were below 20 ug/l. The TCE concentration at MW-5sb is slightly higher than 1997 results. Overall, the distribution of TCE in the shallow bedrock during November 1998 generally is consistent with recent historical data.

Shallow bedrock wells MW-06sb, MW-09sb, MW-10sb and MW-15sb historically have exhibited concentrations of total VOCs greater than 1,000 ug/l. MW-09sb, MW-06sb and MW-15sb are monitored annually. MW-10sb has been converted to a recovery well and is part of the Phase 1A Area remedial system. Groundwater quality data from MW-10sb and other related monitoring well are reported in monthly progress reports submitted to the EPA. Concentration data posted on [Figure 11](#) for MW-10sb is from November 3, 1998.

As shown in [Appendix I](#), VOC concentrations in both MW-06sb and MW-09sb have declined compared to pre-IRA data. TCE and total VOC concentrations at MW-06sb in 1998 were 73 ug/l and 81 ug/l, respectively. These concentrations are lower than 1996 results and similar to 1997 results. VOCs were not detected at MW-09sb in 1998. MW-15sb exhibited significantly higher VOC concentration relative to 1997 results and historical data. This is likely due to pumping at MW-15db which pulls groundwater from the source area.

VOC concentrations detected in 1998 in the shallow bedrock monitoring wells are summarized in [Appendix D](#).

5.4.3 Unconsolidated Deposits Aquifer

Prior to IRA start-up, TCE concentrations in the unconsolidated aquifer greater than 10 ug/l extended to the northeast to the vicinity of well MW-11t and to the east and southeast near wells MW-12t and MW-8t, respectively. As a result of IRA deep bedrock pumping, the areal extent of the 10 ug/l isopleth has been reduced to the east and southeast. The overall distribution of TCE in the unconsolidated aquifer shown on [Figure 10](#), which is based on November 1998 data, is consistent with post-IRA historical data.

Six existing monitoring wells screened in the overburden aquifer have had total VOC concentrations greater than 1,000 ug/l detected during the monitoring program ([Appendix I](#)): MW-04t, MW-06t, MW-23t, MW-26t, MW-33t and MW-EPA-Ats. Historical total VOC concentrations greater than 10,000 ug/l have been detected at all these wells, except MW-06t and MW-33t. Wells MW-23t and MW-EPA-Ats are sampled on an annual basis. MW-04t, MW-06t, MW-26t and MW-33t were sampled more frequently in 1998 as part of the Phase 1A Area monitoring program.

Total VOC concentrations at MW-06t have been decreasing since IRA initiation and have been less than 70 ug/l since 1994. VOC concentrations at MW-06t were steady through 1997 and 1998. VOC concentrations at well MW-23t have decreased steadily since remediation began. The total VOC concentration at MW-23t in November 1998 was 3,700 ug/l; this concentration

is lower than historical results. VOC concentrations at MW-33t in 1998 ranged from 4,660 ug/l (August) to 6,590 ug/l (April). This range of concentrations is higher than historical results. The total VOC concentration at MW-EPA-Ats during November 1997 (32,000 ug/l) was within historical ranges, but lower than 1997 results.

VOC concentrations at well MW-15t have increased since IRA operation began. Pumping of well MW-15db has depressed the water table near MW-15t and appears to be drawing groundwater with higher VOC concentrations from the vicinity of the source area toward MW-15t. VOC concentration at MW-15t have remained constant during 1997 and 1998. VOC concentrations at well MW-04t in 1998 ranged from 17,000 ug/l (February) to 37,940 ug/l (August). This range is consistent with historical data, but slightly higher than 1997 results.

Detected VOC concentrations at MW-26t in 1998 ranged from 3,400 ug/l (January) to 720,000 ug/l (November). MW-26t is in the Phase 1A Area and is subject to influence from the operation of the Phase 1A Area remedial system. The detected VOC concentration in January 1998 is lower than most historical results. Total VOCs concentrations in all other samples collected from MW26t in 1998 were greater than 500,000 ug/l. These concentrations are consistent with historical ranges. DNAPL was not observed in MW-26t during 1998.

VOC concentrations detected in 1998 in the unconsolidated deposits monitoring wells are summarized in Appendix E.

5.4.4 Residential Water-Supply Wells

The 1998 analytical data were evaluated to confirm that the IRA has continued to prevent off-site VOC impacts to residential water-supply wells. Locations of residential water supply wells are included on Figure 2. Analytical results for domestic samples collected during 1998 are summarized in Appendix F.

In 1992, prior to initiation of the IRA, TCE was detected at GW-06ob (Tarr Apartments), GW-09db (Linemaster single family house), GW-21db (Parent residence), GW-40db (Woodstock Town Hall), GW-53db (Wenger residence), GW-55 (bookstore), and GW-57 (Elmen residence). The detected historical concentrations were less than 5 ug/l, except for the Town Hall supply well (GW-40db). Carbon filtration treatment systems were installed at wells GW-06ob, GW-09db, and GW-40db.

TCE was not detected in any of the residential wells during 1998. The last detections of TCE in off-site supply wells were in 1993, when concentrations less than 1.0 ug/l were detected in three wells.

Chloroform and trichlorofluoromethane were detected at low concentrations in samples collected from well GW-17db (former Harding residence) during 1998. These same compounds were detected at GW-17db in 1996 and 1997. The detections of these compounds are not associated with the contaminants detected on the Linemaster property. Chloroform,

dibromochloromethane and bromochloromethane were detected at well GW-45db in February 1998. This well was sampled again in August 1998; VOCs were not detected in the sample.

5.4.5 Surface Waters

Samples from 12 surface water locations on and adjacent to the site, shown on Figure 2, are collected quarterly. VOC analytical results for 1998 are summarized in Appendix G. During that time period, TCE detections were limited to surface-water sampling locations SW-4 and SW-7. TCE was detected at SW-4 in 1998 at concentrations of 0.80 ug/l in February and 0.54 ug/l in November. TCE was detected at SW-7 in February at a concentration of 0.70 ug/l. These concentrations are similar to those observed during 1997. SW-4 and SW-7 are located adjacent to Pond 1 in the eastern portion of the site. Low level VOC detections at these locations are consistent with historical results, and are believed to be related to unconsolidated deposits aquifer discharge to Pond 1.

A trace concentration of benzene (0.71 ug/l) was detected in November 1998 at SW-15 which is located in a field west of Plaine Hill Road. Given the site hydrogeologic conditions and that benzene was not detected in any shallow bedrock or unconsolidated deposits monitoring wells in 1998, we conclude that the detection of benzene at SW-15 is unrelated to the Linemaster site.

6.0 SUMMARY

During 1998, the IRA groundwater extraction system has been effective in maintaining hydraulic control of the VOC plumes in the deep and shallow bedrock aquifers. IRA operation continues to reduce TCE and VOC concentrations in the deep bedrock, shallow bedrock and unconsolidated deposits aquifers.

6.1 VOC Mass Removal

During 1998, more than 22 million gallons of water were extracted from the deep bedrock aquifer and treated by the IRTS. Approximately 0.6 pounds of TCE and 55 pounds of total VOCs were removed from the extracted groundwater. Approximately 170 million gallons of water have been treated since IRA operation began. To date, approximately 774 pounds of TCE and 962 total pounds of VOCs have been removed from the groundwater by the IRTS.

6.2 Hydraulic Influence

Flow nets and potentiometric contours, based on 1998 potentiometric head data, illustrate that the deep bedrock VOC groundwater plume at the Linemaster site is hydraulically controlled. During 1998, the deep bedrock extraction wells continued to maintain the established hydraulic influence such that groundwater flow potentials indicate that the area around the facility and as far east as the property boundary potentially lie within the capture zone of the extraction wells.

The shallow bedrock potentiometric surface also has been lowered because of extraction well pumping. Groundwater flow in the area north of the facility has been oriented toward well MW-15sb since IRA start-up.

The water level in many of the unconsolidated deposits aquifer monitoring wells has been lowered by deep bedrock pumping, indicating that the potential exists for groundwater in the unconsolidated deposits aquifer to flow downward into the bedrock aquifers.

6.3 TCE and VOC Distribution and Concentration Trends

Decreasing contaminant concentrations in on-site monitoring wells and the virtual elimination of off-site impact to residential supply wells confirm that the IRA system has established hydraulic control of the groundwater plume within the fractured bedrock aquifer system.

The most recent data indicate that the areal extent of elevated TCE concentrations (greater than 100 ug/l) in the deep bedrock aquifer has been reduced significantly since initiation of the IRA in 1992. Additionally, the extent of the groundwater plume in the deep bedrock aquifer has not expanded during the same time period. Groundwater sample results indicate that the remediation system is mitigating contaminant migration from the Linemaster site in the deep bedrock aquifer.

Since IRA pumping began, a portion of the shallow bedrock VOC plume has been drawn to the northwest due to the hydraulic influence induced by the deep bedrock pumping at MW-15db.

However, the concentration of TCE in wells to the east has decreased, and the areal extent of groundwater plume in that direction has been reduced.

The TCE plume in the unconsolidated deposits aquifer also has changed in configuration since the extraction well pumping began. A portion of the plume has been drawn to the northwest due to the hydraulic influence induced by the deep bedrock pumping at MW-15db. The concentration of TCE in wells to the east and southeast has decreased, and the areal extent in that direction has been reduced.

The domestic supply well data indicate that the TCE plume has been effectively contained on the Linemaster site. During 1998, TCE was not detected at any off-site supply wells.

Detections of low concentrations of TCE at surface-water sampling locations SW-4 and SW-7 are consistent with historical data. These detections likely are related to unconsolidated deposits aquifer discharge in the vicinity of Pond 1.

7.0 RECOMMENDATIONS

The operation of the IRA should be continued to maintain control of the migration of VOCs. The following modifications to the current groundwater and surface-water monitoring program are recommended:

1. Limit surface-water sampling to February and August. Semi-annual sampling will be sufficient to evaluate any changes in the established historical VOC concentration trends.
2. Except for GW-08db (Linemaster facility water supply well) and GW-40 (Town Hall well) reduce the sampling frequency of the residential wells sampled quarterly to semi-annually. The extensive residential supply well monitoring data confirm that IRA pumping has established hydraulic control of the deep bedrock aquifer VOC plume and eliminated off-site TCE impacts. Semi-annual monitoring will be sufficient to confirm the continued absence of TCE at residential supply wells.

8.0 REFERENCES

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T ABLES

TABLES

TABLE 1

PUMP SETTINGS
1998 ANNUAL MONITORING REPORT
LINEMASTER SWITCH CORPORATION
WOODSTOCK, CONNECTICUT

WELL	WELL DEPTH (ft.)	PUMP DEPTH (ft.)	PUMP ELEV. (ft-NGVD)	AVERAGE FLOW RATE (gpm)
MW-01db	304	280	247	7
MW-06db	301	280	225	2
MW-14db	200	180	260	20
MW-15db	305	200	352	9
MW-17db	400	325	236	1
GW-10db	331	260	314	4
GW-08db	300	260	262	27

Note: Depth measurements are relative to grade.
gpm = gallons per minute
NGVD = National Geodetic Vertical Datum

TABLE 2
SUMMARY OF WELL COMPLETION DETAILS
1998 ANNUAL MONITORING REPORT
LINEMASTER SWITCH CORPORATION
WOODSTOCK, CONNECTICUT

SITE IDENTIFICATION	ELEVATION			WELL/ SCREEN DIAMETER (inches)	TOTAL BORING DEPTH (feet)	BEDROCK SURFACE		MONITORED INTERVAL					COMPLETION DATE
	TOP OF STEEL CASING (ft-NGVD)	TOP OF PVC (ft-NGVD)	GROUND SURFACE (ft-NGVD)			DEPTH (feet)	ELEVATION (ft-NGVD)	AQUIFER (1)	SCREEN LENGTH (feet)	SCREENED INTERVAL DEPTH (feet)	SCREENED INTERVAL ELEVATION (ft-NGVD)	SCREEN SLOT SIZE (in.)	
MW-01t	528.82	528.46	526.98	2	64.5			t	10	35.57 - 45.57	481.41 - 491.41	0.010	03-Aug-87
MW-01sb	528.64	528.44	526.94	2	90.0	74.0	453.0	sb	10	79.71 - 89.71	437.24 - 447.23	0.010	25-Apr-91
MW-01db	528.26		527.17	6	304.0	74.0	453.0	db		84.00 - 304.00	223.00 - 443.17		24-Apr-91
MW-02t	563.29	563.60	561.35	2	45.0	45.0	516.0	t	5	30.52 - 35.52	525.83 - 530.83	0.010	27-Jul-87
MW-03t	545.10	544.72	542.87	2	21.0	21.0	522.0	t	5	14.58 - 19.58	523.29 - 528.29	0.010	24-Jul-87
MW-04t	556.97	556.53	554.77	2	36.5			t	5	30.53 - 35.53	519.24 - 524.24	0.010	12-Aug-87
MW-05sb	539.32	538.89	537.46	2	44.0	10.0	527.0	sb	5	30.86 - 35.86	501.60 - 506.60	0.010	30-Jul-87
MW-06t	500.88	500.83	498.95	2	22.0	22.0	477.0	t	5	14.99 - 19.99	478.96 - 483.96	0.010	04-Aug-87
MW-06sb	500.86	500.85	498.86	2	37.5	22.0	477.0	sb	10	27.52 - 37.52	461.34 - 471.34	0.010	03-Feb-90
MW-06db	504.42		505.33	6	301.0	21.0	484.0	db		35.00 - 301.00	204.00 - 470.33		26-Apr-91
MW-07sb	486.73	486.61	484.81	2	28.0	2.0	483.0	sb	5	23.03 - 28.03	456.78 - 461.78	0.010	07-Aug-87
MW-08t	437.26	436.68	435.14	2	20.5			t	10	10.30 - 20.30	414.84 - 424.84	0.010	10-May-91
MW-08sb	437.85	437.62	435.16	2	28.5	21.0	414.0	sb	5	24.20 - 29.20	405.96 - 410.96	0.010	06-Aug-87
MW-08db	437.62		435.52	6	202.0	20.0	416.0	db		30.00 - 202.00	234.00 - 405.52		29-Apr-91
MW-09sb	470.09	469.93	467.90	2	15.5	6.0	462.0	sb	5	10.29 - 15.29	452.61 - 457.61	0.010	10-Aug-87
MW-10ts		573.43	569.40	2	25.0			t	10	16.45 - 26.45	542.95 - 552.95	0.010	01-Apr-92
MW-10td	570.13	569.95	568.64	2	43.5	44.0	525.0	t	10	33.79 - 43.79	524.85 - 534.85	0.010	18-Jan-90
MW-10sb	569.44	569.29	568.40	2	64.0	44.0	525.0	sb	10	52.41 - 62.41	505.99 - 515.99	0.010	17-Jan-90
MW-11t	493.65	493.48	491.41	2	27.5			t	10	18.04 - 28.04	463.37 - 473.37	0.010	08-Jan-90
MW-11sb	493.58	493.36	491.54	2	44.0	28.5	464.0	sb	10	33.72 - 43.72	447.82 - 457.82	0.010	11-Jan-90
MW-11db	490.16		489.18	6	250.0	28.5	459.0	db		29.50 - 250.00	239.00 - 459.68		08-May-91
MW-12t	455.84	455.51	453.93	2	17.0	17.0	437.0	t	10	6.74 - 16.74	437.19 - 447.19	0.010	10-Jan-90
MW-12sb	455.75	455.73	453.80	2	33.5	17.0	437.0	sb	10	23.99 - 33.99	419.81 - 429.81	0.010	11-Jan-90
MW-12db	455.08		453.95	6	201.0	17.0	437.0	db		25.00 - 201.00	253.00 - 428.95		19-Dec-89
MW-13db	540.83		540.24	6	300	5.0	535.0	db		19.00 - 300.00	240.00 - 521.24		21-Dec-89
MW-14sb	441.41	441.35	439.72	2	25.5	11.0	428.0	sb	10	15.49 - 25.49	414.23 - 424.23	0.010	15-Jan-90
MW-14db	442.35		439.76	6	201.0	11.0	428.0	db		24.00 - 201.00	239.00 - 415.76		20-Dec-89
MW-15t	552.84	552.60	552.85	2	137.0	136.0	417.0	t	10	127.24 - 137.24	415.61 - 425.61	0.010	23-Apr-91
MW-15sb	552.65	552.47	552.65	2	153.0	139.0	413.0	sb	10	144.44 - 154.44	398.21 - 408.21	0.010	07-May-91
MW-15db	551.38		552.32	6	(2) 400	140.0	413.0	db		164.00 - 400.00	152.00 - 388.32		10-May-91
MW-16t	569.71	569.35	569.74	2	30.0			t	10	19.74 - 29.74	540.00 - 550.00	0.010	24-Apr-91
MW-16sb	568.98	568.46	568.92	2	68.0	48.0	521.0	sb	10	56.91 - 66.91	502.01 - 512.01	0.010	24-Apr-91
MW-17ts	560.07	559.86	560.10	2	20.0			t	10	9.79 - 19.79	540.31 - 550.31	0.010	06-May-91

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WOODSTOCK, CONNECTICUT

SITE IDENTIFICATION	ELEVATION			WELL/ SCREEN DIAMETER (inches)	TOTAL BORING DEPTH (feet)	BEDROCK SURFACE		MONITORED INTERVAL					COMPLETION DATE
	TOP OF STEEL CASING (ft-NGVD)	TOP OF PVC (ft-NGVD)	GROUND SURFACE (ft-NGVD)			DEPTH (feet)	ELEVATION (ft-NGVD)	AQUIFER (1)	SCREEN LENGTH (feet)	SCREENED INTERVAL DEPTH (feet)	SCREENED INTERVAL ELEVATION (ft-NGVD)	SCREEN SLOT SIZE (in.)	
MW-17td	560.34	560.09	560.37	2	42.5			t	10	32.46 - 42.46	517.91 - 527.91	0.010	06-May-91
MW-17sb	560.78	560.32	560.82	2	68.0	50.0	511.0	sb	10	58.27 - 68.27	492.55 - 502.55	0.010	06-May-91
MW-17db	560.31		560.80	6	400.0	50.0	510.0	db		60.00 - 400.00	160.00 - 500.80		29-Apr-91
MW-18t	466.99	466.55	465.10	2	14.0			t	10	4.59 - 14.59	450.51 - 460.51	0.010	09-May-91
MW-18sb	467.07	466.61	465.31	2	45.0	27.0	438.0	sb	10	35.23 - 45.23	420.08 - 430.08	0.010	09-May-91
MW-18db	465.93		465.24	6	200.0	27.0	438.0	db		40.00 - 200.00	265.00 - 425.24		06-May-91
MW-19sb	469.54	469.28	467.53	2	19.5	4.5	463.0	sb	10	9.22 - 19.22	448.31 - 458.31	0.010	13-May-91
MW-20sb	427.70	427.62	425.40	2	20.5	5.0	420.0	sb	10	10.45 - 20.45	404.95 - 414.95	0.010	01-May-91
MW-21db	549.29		550.00	6	411.0	35.0	515.0	db		46.00 - 411.00	139.00 - 504.00		26-Apr-91
MW-22db	504.52		503.09	6	348.0	23.0	480.0	db		40.00 - 348.00	155.00 - 463.09		22-Apr-91
MW-23t	570.09	569.62	570.09	2	69.0	69.0	501.0	t	10	15.84 - 25.84	544.25 - 554.25	0.010	14-Jun-91
MW-24t	568.12	567.67	568.11	2	26.0			t	10	16.43 - 26.43	541.68 - 551.68	0.010	19-Jun-91
MW-25t	570.91	570.34	570.91	2	47.0	47.0	523.9	t	10	16.29 - 26.29	544.62 - 554.62	0.010	21-Jun-91
MW-26t (3)	569.96	569.65	568.81	2	44.5	44.5	524.0	t	10	35.50 - 44.41	524.40 - 533.31	0.010	27-Jun-91
MW-27t	537.95	537.70	537.97	2	128.0			t	10	115.96 - 125.96	412.01 - 422.01	0.010	14-Oct-91
MW-27sb	537.42	537.14	537.45	2	143.0	128.0	410.0	sb	10	133.00 - 143.00	395.00 - 404.45	0.010	11-Oct-91
MW-27db	539.07		537.58	6	342.0	128.0	410.0	db		150.00 - 342.00	196.00 - 387.58		09-Oct-91
MW-28t		567.66	567.20	2	35.0	35.0	532.0	t	10	24.90 - 34.90	532.30 - 542.30	0.010	25-Mar-92
MW-28sb		571.49	568.00	2	49.0	32.0	536.0	sb	10	38.95 - 48.95	519.05 - 529.05	0.010	25-Mar-92
MW-28db	570.24		568.30	6	500.0	28.0	540.3	db		44.00 - 500.00	68.30 - 524.30	0.010	25-Mar-92
MW-29t		554.59	551.14	2	60.0	60.0	491.0	t	10	50.28 - 60.28	490.86 - 500.86	0.010	25-Mar-92
MW-29sb		551.04	549.70	2	78.0	59.5	490.2	sb	10	68.65 - 78.65	471.05 - 481.05	0.010	25-Mar-92
MW-29db	551.78		549.80	6	400.0	56.0	493.8	db		72.00 - 400.00	149.80 - 477.80		25-Mar-92
MW-30ts		573.60	573.57	2	28.0			t	10	18.33 - 28.33	545.24 - 555.24	0.010	31-Mar-92
MW-30td		573.34	573.39	2	41.0	41.0	532.0	t	10	30.84 - 40.84	532.55 - 542.55	0.010	31-Mar-92
MW31T		568.1	565.46	2	72.0			t	0.5	20.00 - 30.00	535.46 - 545.46	0.01	03-Aug-95
MW32SB		563.7	561.51	2	84.0	67.0	494.5	sb	0.5	74.00 - 84.00	477.51 - 487.51	0.01	10-Aug-95
MW32T		564.3	561.72	2	52.0			t	0.5	16.00 - 26.00	535.72 - 545.72	0.01	08-Aug-95
MW33T		538.1	536.00	2	35.0	35.0	501	t	0.5	23.00 - 33.00	503.00 - 513.00	0.01	23-Aug-95
MW34T		559.4	559.67	2	119.0	117.0	442.7	t	0.5	102.00 - 112.00	447.67 - 457.67	0.01	18-Aug-95
MW-EPA-Ats	570.40	570.36	568.88	2	28.5	66.0	501.0	t	10	18.48 - 28.48	540.40 - 550.40	0.010	10-Jan-90

TABLE 2
SUMMARY OF WELL COMPLETION DETAILS
1998 ANNUAL MONITORING REPORT
LINEMASTER SWITCH CORPORATION
WOODSTOCK, CONNECTICUT

SITE IDENTIFICATION	ELEVATION			WELL/ SCREEN DIAMETER (inches)	TOTAL BORING DEPTH (feet)	BEDROCK SURFACE		AQUIFER (1)	SCREEN LENGTH (feet)	MONITORED INTERVAL				SCREEN SLOT SIZE (in.)	COMPLETION DATE
	TOP OF STEEL CASING (ft-NGVD)	TOP OF PVC (ft-NGVD)	GROUND SURFACE (ft-NGVD)			DEPTH (feet)	ELEVATION (ft-NGVD)			SCREENED INTERVAL DEPTH (feet)	SCREENED INTERVAL ELEVATION (ft-NGVD)	SCREENED INTERVAL DEPTH (feet)	SCREENED INTERVAL ELEVATION (ft-NGVD)		
MW-EPA-Atd	570.29	570.00	568.80	2	64.5	66.0	501.0	t	10	53.76 - 63.76	505.04 - 515.04			0.010	12-Apr-91
MW-EPA-Asb	569.99	569.93	568.83	2	81.5	66.0	501.0	sb	10	71.85 - 81.85	486.98 - 496.98			0.010	11-Apr-91
GW-08db	522.39		(4) 528	6	(4) 300	?	?	db		33.00 - 300.00	(4) 228 - 495				
GW-10db	574.25		574.25	6	(4) 331	(4) 42	(4) 532	db		43.00 - 325.00	(4) 249 - 531.25				
GW-12db	554.00		554.00	6	131.0	(4) 98	(4) 456	db		98.00 - 131.00	423.00 - 456.00				

NOTES:

- (1) t-till sb-shallow bedrock db-deep bedrock
 (2) Caved to 305 ft.
 (3) Angled well installed at 63 degrees.
 (4) Approximate
 NGVD = National Geodetic Vertical Datum

TABLE 3
IRA VOC MASS REMOVAL

1998 ANNUAL MONITORING REPORT
LINEMASTER SWITCH CORPORATION
WOODSTOCK, CONNECTICUT

MONTH	TCE (ug/l)	TOTAL VOCs (ug/l)	TOTAL FLOW (gal)	REMOVED	
				TCE (lbs)	TOTAL VOCs (lbs)
1992 TOTAL			13,334,425	111.6	131.5
1993 TOTAL			25,820,741	172.7	188.7
1994 TOTAL			29,104,960	213.8	224.8
1995 TOTAL			27,148,897	118.8	128.5
1996 TOTAL			28,162,136	105.5	125.6
1997 TOTAL			23,380,315	50.5	107.6
1998					
JAN.	59	316	1,823,765	0.9	4.8
FEB.	67	317	1,758,997	1.0	4.7
MAR.	52	372	2,325,282	1.0	7.2
APRIL	65	449	1,762,649	1.0	6.6
MAY	71	481	1,834,801	1.1	7.4
JUNE	86	411	2,113,998	1.5	7.2
JULY	86	532	1,754,851	1.3	7.8
AUG.	53	339	2,062,461	0.9	5.8
SEPT.	48	348	1,643,290	0.7	4.8
OCT.	71	411	1,658,336	1.0	5.7
NOV.	33	303	2,107,561	0.6	5.3
DEC.	77	320	1,638,737	1.1	4.4
SUBTOTAL			22,484,728	11.9	71.6
Phase 1A Area	14,622	21,202	92,855	11.3	16.4
1998 TOTAL*			22,391,873	0.6	55.2
			IRA TOTAL		
			1992 -1998	169,343,347	774 962

Notes:

TCE = Trichloroethene

VOCs = Volatile Organic Compounds

ug/l = micrograms per liter

gal = gallons

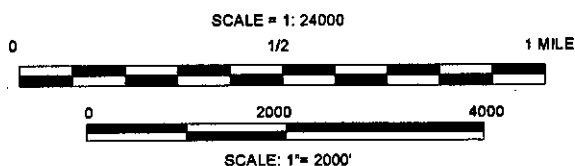
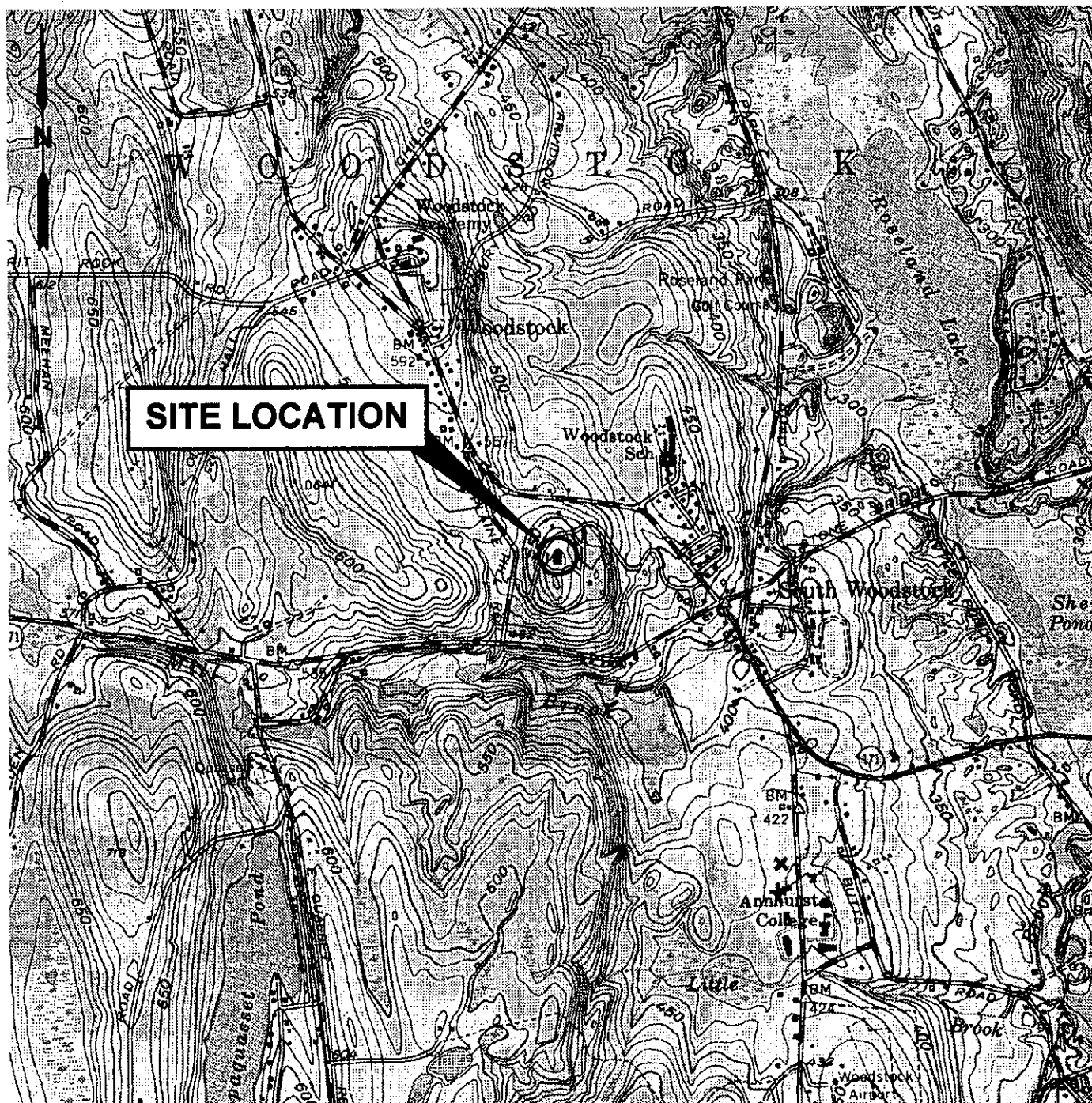
lbs. = pounds

* 1998 Total for Deep bedrock pumping wells - Total flow and pounds of TCE and VOCs extracted from the Phase 1A area has been subtracted out.



Figures

FIGURES



MAP REFERENCE:

THIS MAP WAS PREPARED FROM THE FOLLOWING
7.5 MINUTE SERIES TOPOGRAPHIC MAP:
PUTNAM, CONN. 1955 PHOTOREVISED 1970

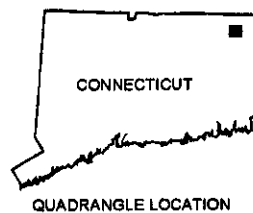


FIGURE NO. 1



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(203) 546-2488

SITE LOCATION MAP LINEMASTER SWITCH CORP.

PLAINE HILL ROAD

WOODSTOCK, CONNECTICUT

PROJ. NO. 86-088A5

DATED: SEPT. 1995

SCALE: 1" = 2000'



LEGEND

- MW-03T OVERBURDEN MONITORING WELL
- MW6SB SHALLOW BEDROCK MONITORING WELL
- MW6DB DEEP BEDROCK EXTRACTION WELL
- MW6DB DEEP BEDROCK MONITORING WELL
- SW18 SURFACE WATER SAMPLING LOCATION
- PZ-05 PIEZOMETER
- GW-S7 DOMESTIC WATER SUPPLY WELL

A—A' FLOW NET CROSS SECTION LINE

NOTES

TOPOGRAPHIC FEATURES, SHOWN HEREON, WERE PREPARED IN ACCORDANCE WITH CLASS T-3 STANDARDS.

AERIAL PHOTOGRAPHY BASED ON 3-23-86 FLIGHT BY AERO GRAPHICS CORP. COMPILED BY AERIAL DATA REDUCTION ASSOC. CONTOURS BASED ON CONN. GEODETIC SURVEY STATION 1992 HAVING AN ELEVATION OF 567.141. (NGVD 1929).

HORIZONTAL DATUM BASED ON C.G.S. (NAD 1927).

ALL MONITORING WELLS HAVE BEEN FIELD LOCATED AND/OR VERIFIED HORIZONTALLY AND VERTICALLY.

CULTURAL FEATURES SOUTHEAST OF INTERSECTION OF RTE. 169 AND RTE. 171 ARE BASED ON PRELIMINARY PLANS FOR SOUTH WOODSTOCK SANITARY SEWER SYSTEM PREPARED BY CEE, INC., WEST HARTFORD, CONNECTICUT.

NOT RELEASED FOR CONSTRUCTION

FIGURE 2

SITE MAP WITH SAMPLING LOCATIONS
1998 ANNUAL MONITORING REPORT
LINEMASTER SWITCH CORPORATION

DATE: MAR. 1999

WOODSTOCK, CONNECTICUT
JOB NO: 86088A8

-300 0 300 600 900

SCALE: 1" = 300'

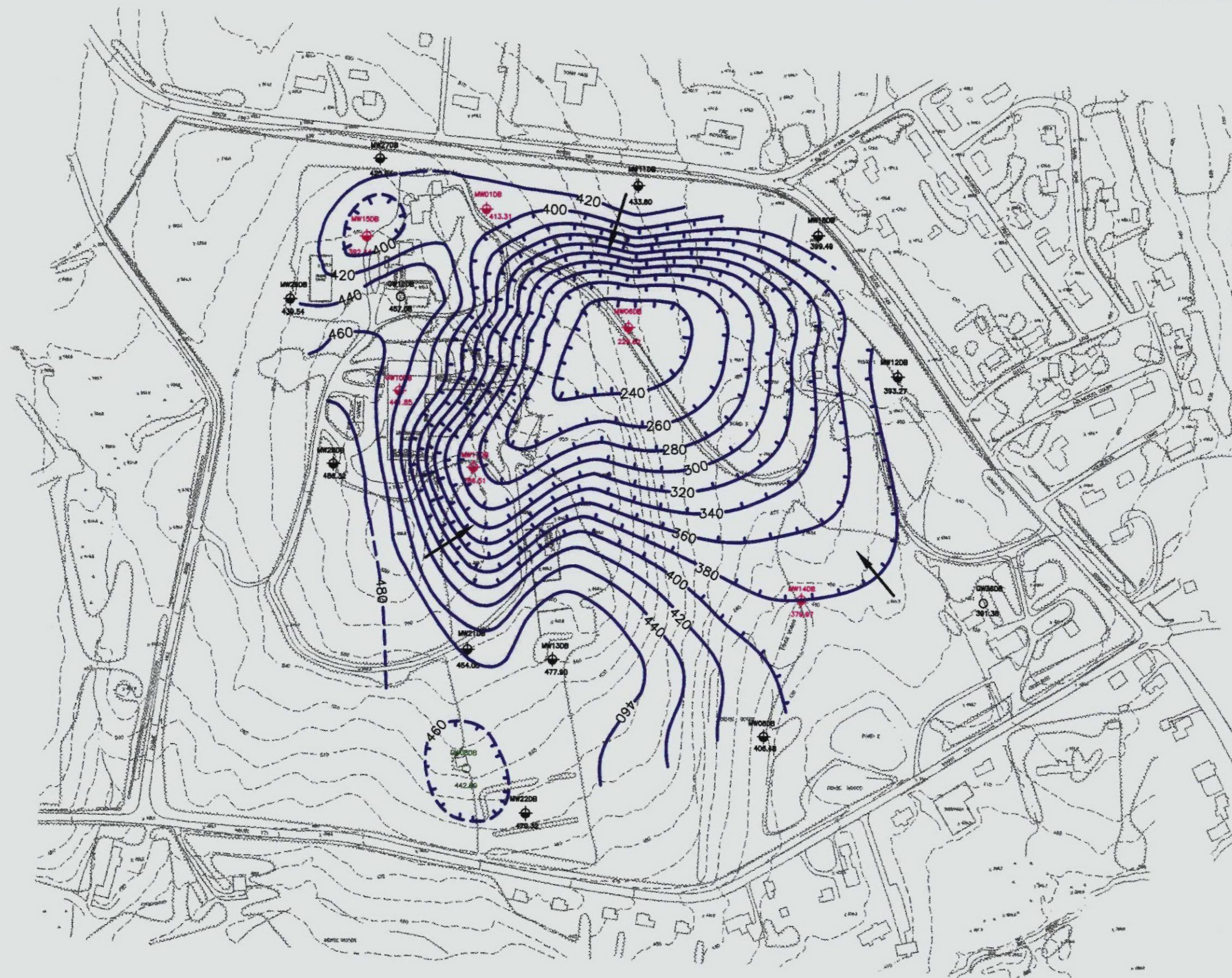


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(203) 646-2469

PROJ. MGR: TLW
DESIGNER: S.M.
DATE: 4/1/98 SITE 1988

PLAINE HILL ROAD
PPP:



LEGEND

- MW08DB
406.48
DEEP BEDROCK MONITORING WELL
POTENTIOMETRIC SURFACE ELEVATION (FT. NGVD)
NOVEMBER 2, 1998
- MW06DB
229.62
DEEP BEDROCK EXTRACTION WELL
POTENTIOMETRIC SURFACE ELEVATION (FT. NGVD)
NOVEMBER 2, 1998
- CW08DB
442.89
FACILITY WATER SUPPLY WELL
POTENTIOMETRIC SURFACE ELEVATION (FT. NGVD)
NOVEMBER 2, 1998

- 470 — POTENTIOMETRIC SURFACE ELEVATION CONTOUR (DASHED WHERE INFERRED)
- ← INFERRED DIRECTION OF GROUNDWATER FLOW

NOTES

TOPOGRAPHIC FEATURES, SHOWN HEREON, WERE PREPARED IN ACCORDANCE WITH CLASS T-3 STANDARDS.

AERIAL PHOTOGRAPHY BASED ON 3-23-86 FLIGHT BY AERO GRAPHICS CORP. COMPILED BY AERIAL DATA REDUCTION ASSOC. CONTOURS BASED ON CONN. GEODETIC SURVEY STATION 1992 HAVING AN ELEVATION OF 567.141. (NGVD 1929).

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300 0 300 600 900
SCALE: 1" = 300'



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PROJ. MGR:
DESIGNER:
FN: J1198GWB

DEEP BEDROCK POTENTIOMETRIC SURFACE MAP — NOVEMBER 2, 1998
1998 ANNUAL MONITORING REPORT
LINEMASTER SWITCH CORPORATION

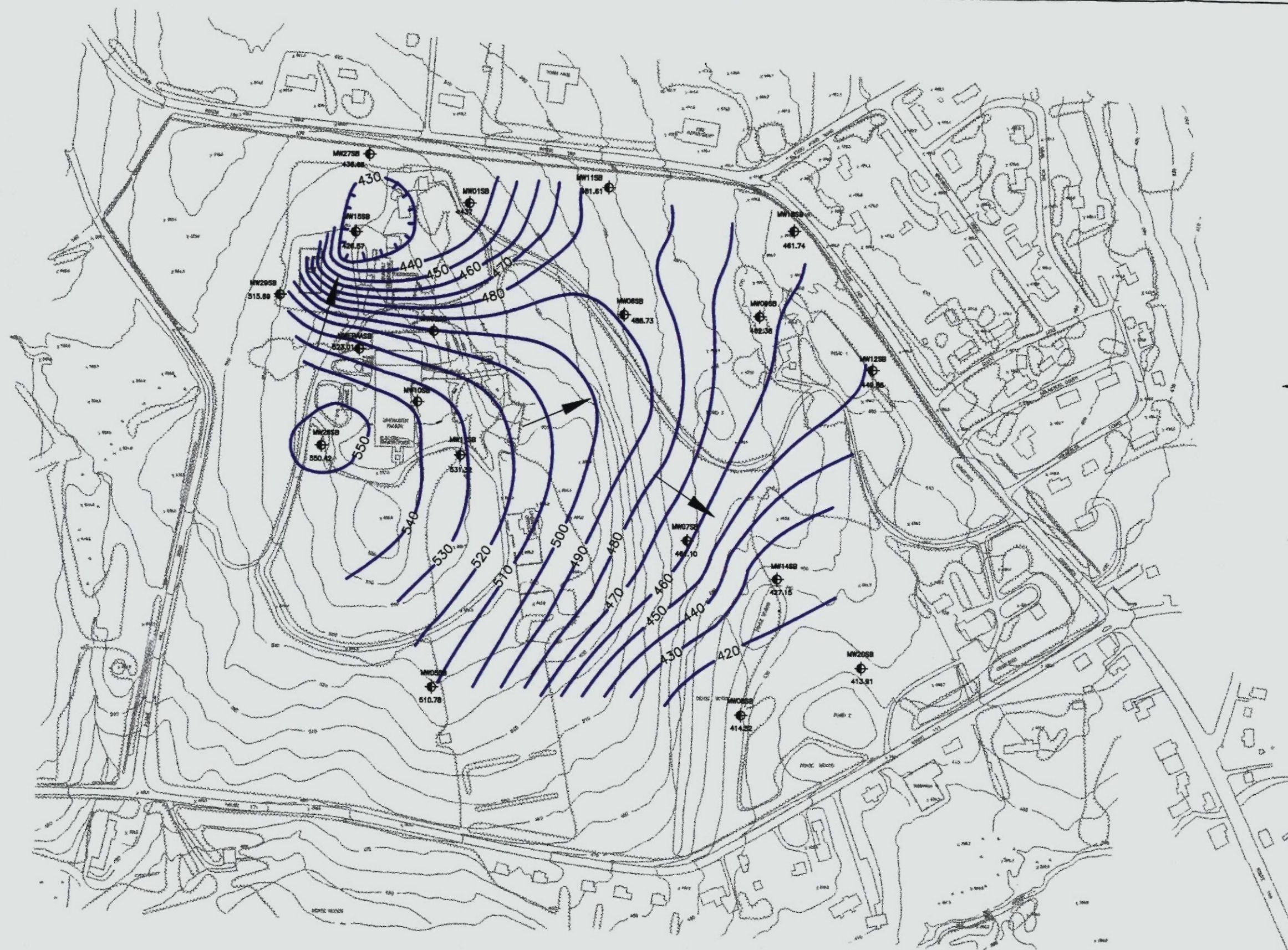
PLAINE HILL ROAD
PPP:XXX

DATE: MAR. 1999

WOODSTOCK, CONNECTICUT
JOB NO: 86088A8

NOT RELEASED FOR CONSTRUCTION

FIGURE 3



LEGEND

- MW06SB
488.73
SHALLOW BEDROCK MONITORING WELL
- POTENTIOMETRIC SURFACE ELEVATION (FT. NGVD) NOVEMBER 3, 1997
- 370
POTENTIOMETRIC SURFACE ELEVATION CONTOUR (DASHED WHERE INFERRED)
- INFERRED DIRECTION OF GROUNDWATER FLOW
- NM
NOT MEASURED

NOTES

TOPOGRAPHIC FEATURES, SHOWN HEREON, WERE PREPARED IN ACCORDANCE WITH CLASS T-3 STANDARDS.

AERIAL PHOTOGRAPHY BASED ON 3-23-86 FLIGHT BY AERO GRAPHICS CORP. COMPILED BY AERIAL DATA REDUCTION ASSOC. CONTOURS BASED ON CONN. GEODETIC SURVEY STATION 1992 HAVING AN ELEVATION OF 567.141. (NGVD 1929).

HORIZONTAL DATUM BASED ON C.G.S. (NAD 1927).

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CULTURAL FEATURES SOUTHEAST OF INTERSECTION OF RTE. 169 AND RTE. 171 ARE BASED ON PRELIMINARY PLANS FOR SOUTH WOODSTOCK SANITARY SEWER SYSTEM PREPARED BY CEE, INC., WEST HARTFORD, CONNECTICUT.

300 0 300 600 900
SCALE: 1" = 300'



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SHALLOW BEDROCK POTENTIOMETRIC SURFACE MAP - NOVEMBER 2, 1998
1998 ANNUAL MONITORING REPORT
LINEMASTER SWITCH CORPORATION

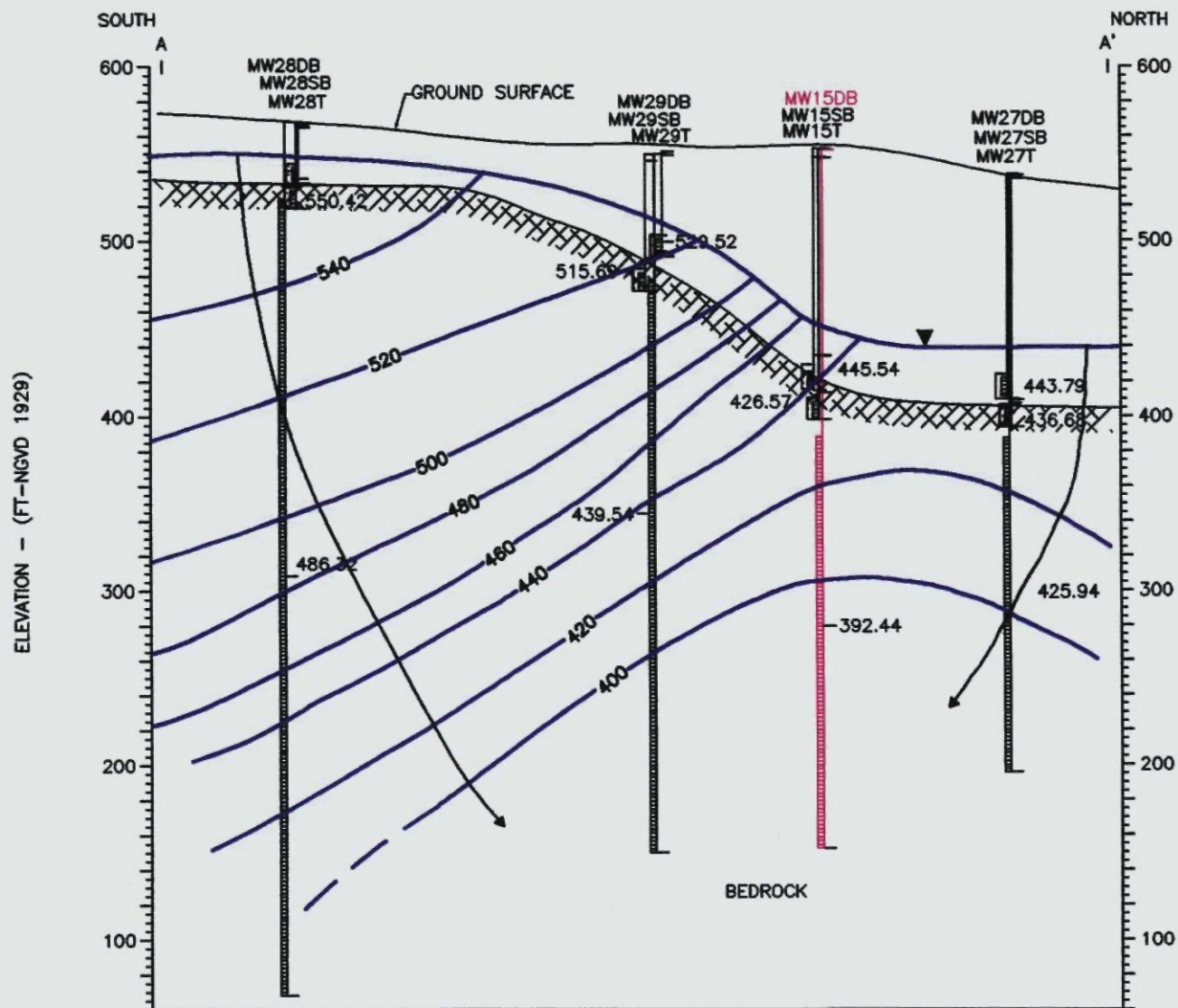
PLAINE HILL ROAD
PPP:

DATE: MAR. 1999

WOODSTOCK, CONNECTICUT
JOB NO: 86088A8

NOT RELEASED FOR CONSTRUCTION

FIGURE 4



LEGEND

MONITORING WELL

486.32 GROUNDWATER ELEVATION AT
SCREEN MIDPOINT (11/2/98)

EXTRACTION WELL

392.44 GROUNDWATER ELEVATION AT
SCREEN MIDPOINT (11/2/98)

— 440 — EQUIPOTENTIAL CONTOUR LINE
→ FLOW PATH LINE
HORIZ SCALE: 1"=200'
VERT SCALE: 1"=100'



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FN: AB / SCTA98

FLOW NET CROSS SECTION A-A' — NOVEMBER 2, 1998

1998 ANNUAL MONITORING REPORT

LINEMASTER SWITCH CORPORATION

PLAINE HILL ROAD

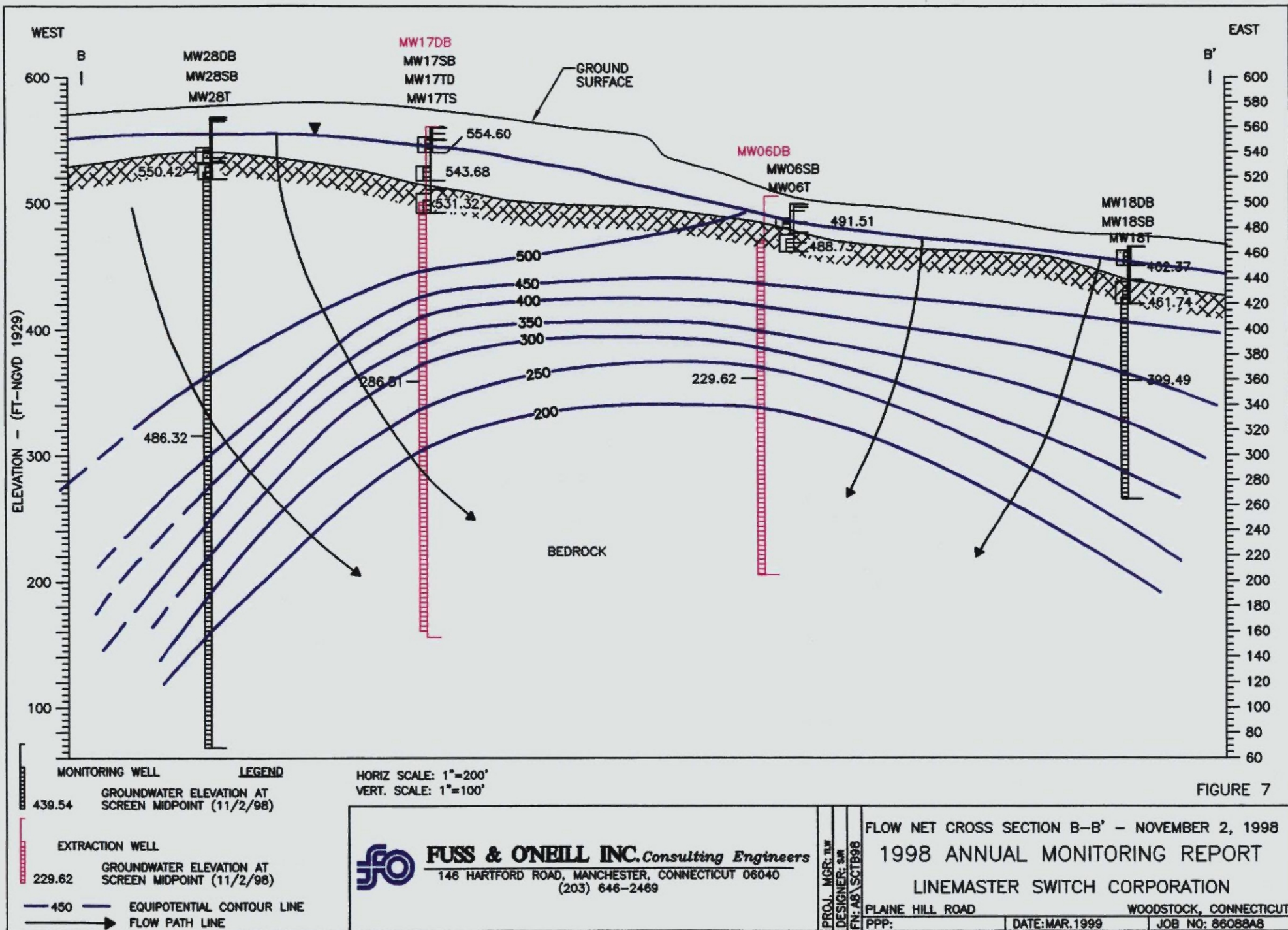
WOODSTOCK, CONNECTICUT

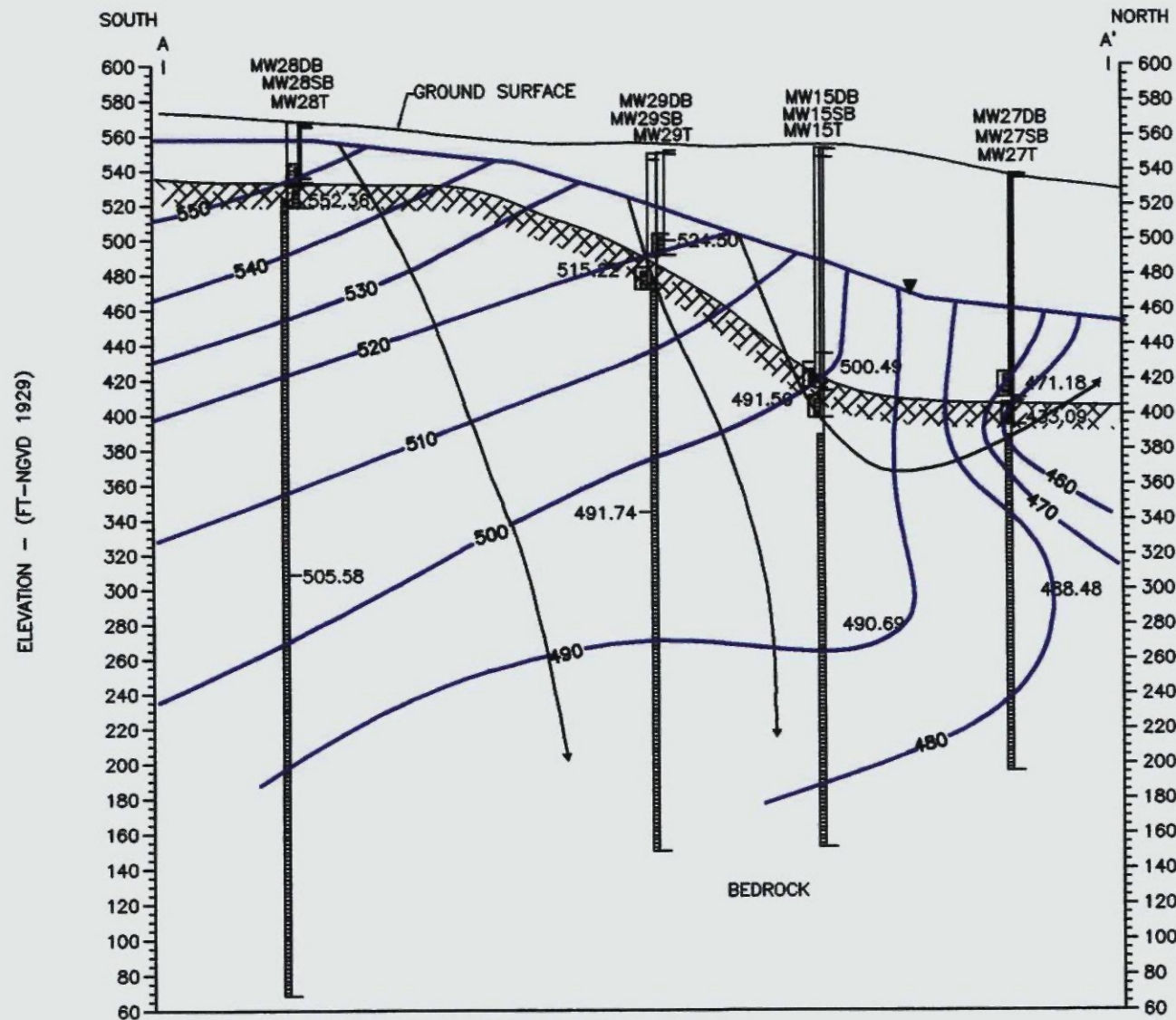
PPP:

DATE: MAR. 1999

JOB NO: 86088A6

FIGURE 6





LEGEND

MONITORING WELL
 552.03
 550
 GROUNDWATER ELEVATION AT SCREEN MIDPOINT (4/27/92)
 EQUIPOTENTIAL CONTOUR LINE
 FLOW PATH LINE
 HORIZ SCALE: 1"=200'
 VERT SCALE: 1"=100'



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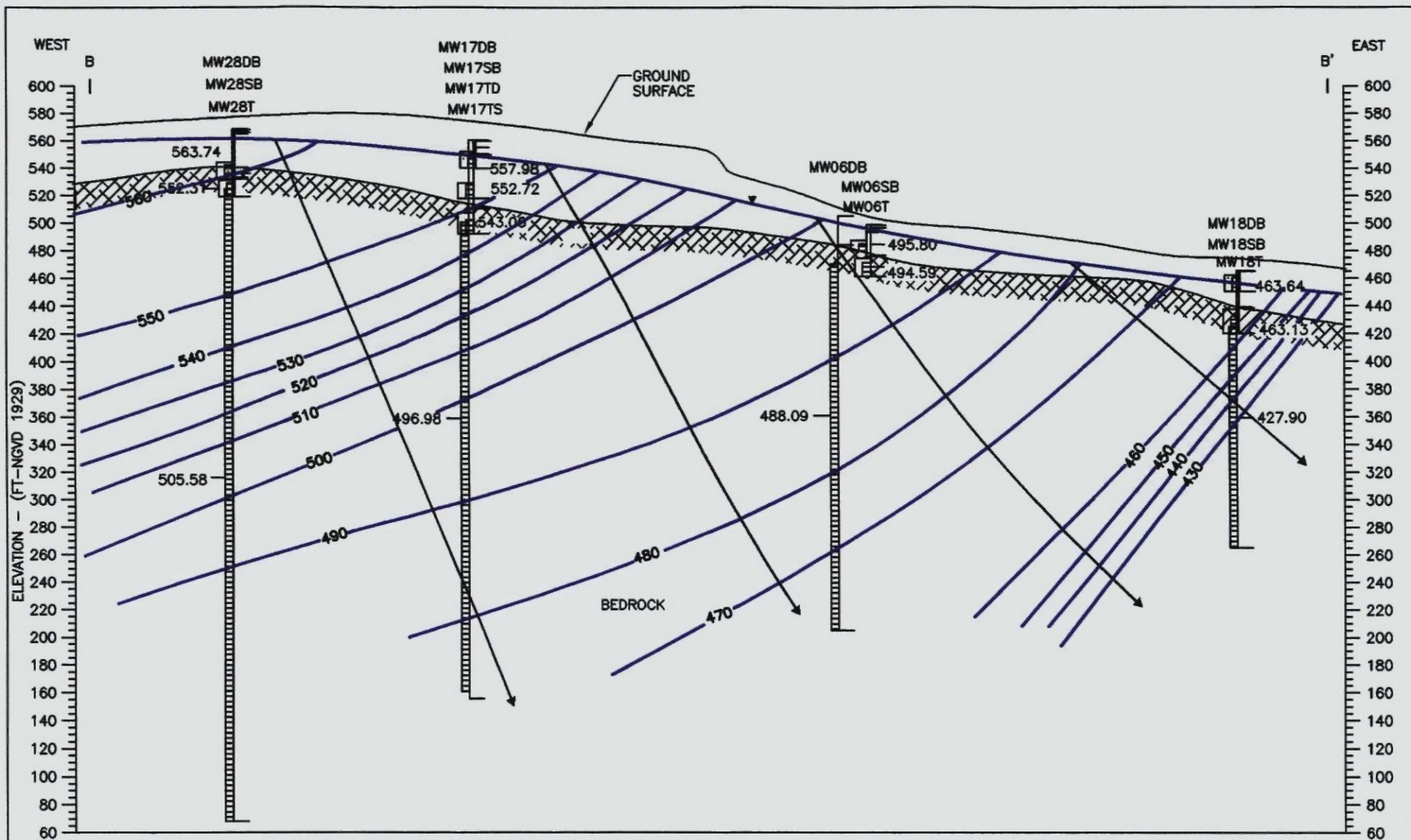
PROJ. MGR:
 DESIGNER:
 EN. J. S. C. 1492

FLOW NET CROSS SECTION A-A' - APRIL 27, 1992
 1998 ANNUAL MONITORING REPORT

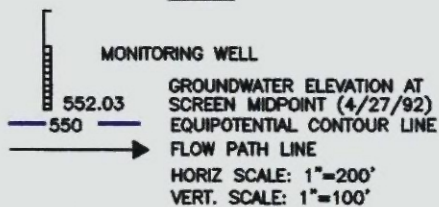
LINEMASTER SWITCH CORPORATION

PLAINE HILL ROAD
 WOODSTOCK, CONNECTICUT
 PPP: FIG8
 DATE: MAR. 1999
 JOB NO: 86088A8

FIGURE 8



LEGEND



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PROJ. MGR:
DESIGNER:
FN: J. VAS SGTB492

FLOW NET CROSS SECTION B-B' - APRIL 27, 1992
1998 ANNUAL MONITORING REPORT

LINEMASTER SWITCH CORPORATION

PLAINE HILL ROAD

WOODSTOCK, CONNECTICUT

PPP: FIG9

DATE: MAR. 1999

JOB NO: 86088A8

FIGURE 9



LEGEND

- MW06DB
72
10
- DEEP BEDROCK MONITORING WELL
- TCE CONCENTRATION IN GROUNDWATER (ug/l) NOVEMBER 1998
- TCE CONCENTRATION ISOPLETH (UG/L) (DASHED WHERE INFERRED)

NOTES

TOPOGRAPHIC FEATURES, SHOWN HEREON, WERE PREPARED IN ACCORDANCE WITH CLASS T-3 STANDARDS.

AERIAL PHOTOGRAPHY BASED ON 3-23-86 FLIGHT BY AERO GRAPHICS CORP. COMPILED BY AERIAL DATA REDUCTION ASSOC. CONTOURS BASED ON CONN. GEODETIC SURVEY STATION 1992 HAVING AN ELEVATION OF 567.141. (NGVD 1929).

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GW08DB TCE CONCENTRATION IS AN AVERAGE OF 9/97 AND 12/97 RESULTS

NOT RELEASED FOR CONSTRUCTION

FIGURE 10

300 0 300 600 900

SCALE: 1" = 300'



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DESIGNER:
DATE: J:119810DB

PLAINE HILL ROAD
PPP:XXX

DEEP BEDROCK TCE ISOPLETH MAP - NOVEMBER 1998

1998 ANNUAL REPORT

LINEMASTER SWITCH CORPORATION

WOODSTOCK, CONNECTICUT
JOB NO: 86088A8

DATE: MAR. 1999



LEGEND

- MW-06T
26
UNCONSOLIDATED DEPOSITS (TILL)
MONITORING WELL
- TCE CONCENTRATION
IN GROUNDWATER
(ug/l) NOVEMBER-
NOVEMBER 1998

----- TCE CONCENTRATION ISOPLETH (UG/L)
(DASHED WHERE INFERRED)

NOTES

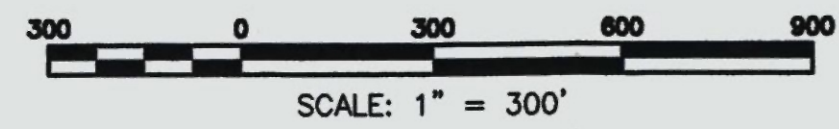
TOPOGRAPHIC FEATURES, SHOWN HEREON, WERE PREPARED IN ACCORDANCE WITH CLASS T-3 STANDARDS.

AERIAL PHOTOGRAPHY BASED ON 3-23-86 FLIGHT BY AERO GRAPHICS CORP. COMPILED BY AERIAL DATA REDUCTION ASSOC. CONTOURS BASED ON CONN. GEODETIC SURVEY STATION 1992 HAVING AN ELEVATION OF 567.141. (NGVD 1929).

HORIZONTAL DATUM BASED ON C.G.S. (NAD 1927).

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
UNCONSOLIDATED DEPOSITS TCE ISOPLETH MAP - NOVEMBER 1998
1998 ANNUAL MONITORING REPORT
LINEMASTER SWITCH CORPORATION
PLAINE HILL ROAD
WOODSTOCK, CONNECTICUT
DATE: MAR. 1999
JOB NO: 86088A8



A

APPENDIX A
MONTHLY WATER LEVEL MONITORING RESULTS

Water Level Monitoring Results
January 1998 through December 1998
1998 Annual Monitoring Report
Linemaster Switch Corporation
Woodstock, Connecticut

SITE	DATE	MP ELEVATION ⁽²⁾ (feet)	TIME	DEPTH TO WATER (feet)	 WATER ELEV. ⁽¹⁾ (feet)	WATER ELEV. ⁽²⁾ (feet)
GW08DB	01/02/98	522.390	12:57	NM	NA	NA
GW08DB	02/02/98	522.390	14:16	136.22	-136.22	386.17
GW08DB	03/02/98	522.390	09:07	NM	NA	NA
GW08DB	04/09/98	522.390	08:44	68.47	-68.47	453.92
GW08DB	06/05/98	522.390	08:48	56.32	12.15	466.07
GW08DB	07/01/98	522.390	10:35	58.62	-2.30	463.77
GW08DB	08/04/98	522.390	13:13	178.30	-119.68	344.09
GW08DB	09/01/98	522.390	13:58	93.45	84.85	428.94
GW08DB	10/01/98	522.390	13:50	115.95	-22.50	406.44
GW08DB	11/04/98	522.390	09:30	79.50	36.45	442.89
GW08DB	12/03/98	522.390	12:00	NM	NA	NA
GW10DB	01/05/98	574.250	11:40	125.00	NA	449.25
GW10DB	01/05/98	574.250	12:50	80.20	44.80	494.05
GW10DB	01/12/98	574.250	09:20	124.50	-44.30	449.75
GW10DB	01/19/98	574.250	09:20	124.70	-0.20	449.55
GW10DB	01/26/98	574.250	13:00	124.60	0.10	449.65
GW10DB	02/02/98	574.250	09:20	124.40	0.20	449.85
GW10DB	02/02/98	574.250	14:51	74.94	49.46	499.31
GW10DB	02/09/98	574.250	09:20	125.50	-50.56	448.75
GW10DB	02/16/98	574.250	11:00	90.00	35.50	484.25
GW10DB	02/23/98	574.250	09:20	90.20	-0.20	484.05
GW10DB	03/02/98	574.250	10:00	89.60	0.60	484.65
GW10DB	03/02/98	574.250	11:30	127.30	-37.70	446.95
GW10DB	03/09/98	574.250	09:20	213.20	-85.90	361.05
GW10DB	03/16/98	574.250	09:30	278.00	-64.80	296.25
GW10DB	03/23/98	574.250	09:20	232.30	45.70	341.95
GW10DB	03/30/98	574.250	09:20	319.00	-86.70	255.25
GW10DB	04/06/98	574.250	09:20	318.50	0.50	255.75
GW10DB	04/09/98	574.250	11:30	NM	NA	NA
GW10DB	04/13/98	574.250	09:20	318.70	-318.70	255.55
GW10DB	04/20/98	574.250	09:20	318.40	0.30	255.85
GW10DB	04/27/98	574.250	09:20	318.50	-0.10	255.75
GW10DB	05/04/98	574.250	09:40	82.00	236.50	492.25
GW10DB	05/11/98	574.250	10:00	208.00	-126.00	366.25
GW10DB	05/18/98	574.250	09:20	183.10	24.90	391.15

(1) Change in Water Elevation since last reported measurement

D = Dry NA = Not Available

(2) Measurements Based on NGVD 1929

O = Obstructed NM = Not Measured

Water Level Monitoring Results
January 1998 through December 1998
1998 Annual Monitoring Report
Linemaster Switch Corporation
Woodstock, Connecticut

SITE	DATE	MP ELEVATION ⁽²⁾ (feet)	TIME	DEPTH TO WATER (feet)	△ WATER ELEV. ⁽¹⁾ (feet)	WATER ELEV. ⁽²⁾ (feet)
GW10DB	05/26/98	574.250	09:20	218.10	-35.00	356.15
GW10DB	06/01/98	574.250	08:20	218.60	-0.50	355.65
GW10DB	06/05/98	574.250	10:51	154.48	64.12	419.77
GW10DB	06/08/98	574.250	08:20	217.80	-63.32	356.45
GW10DB	06/15/98	574.250	08:20	217.60	0.20	356.65
GW10DB	06/22/98	574.250	08:00	162.60	55.00	411.65
GW10DB	06/29/98	574.250	08:00	155.00	7.60	419.25
GW10DB	07/06/98	574.250	08:00	218.40	-63.40	355.85
GW10DB	07/13/98	574.250	09:00	187.00	31.40	387.25
GW10DB	07/20/98	574.250	08:00	156.00	31.00	418.25
GW10DB	07/27/98	574.250	08:00	175.00	-19.00	399.25
GW10DB	08/03/98	574.250	08:00	171.00	4.00	403.25
GW10DB	08/04/98	574.250	10:35	NM	NA	NA
GW10DB	08/10/98	574.250	08:00	170.40	-170.40	403.85
GW10DB	08/17/98	574.250	09:00	190.00	-19.60	384.25
GW10DB	08/24/98	574.250	09:20	196.40	-6.40	377.85
GW10DB	08/31/98	574.250	09:00	177.00	19.40	397.25
GW10DB	09/01/98	574.250	14:21	NM	NA	NA
GW10DB	09/08/98	574.250	09:20	179.30	-179.30	394.95
GW10DB	09/14/98	574.250	09:20	168.20	11.10	406.05
GW10DB	09/21/98	574.250	12:40	157.10	11.10	417.15
GW10DB	09/28/98	574.250	09:20	132.90	24.20	441.35
GW10DB	10/01/98	574.250	08:39	212.50	-79.60	361.75
GW10DB	10/05/98	574.250	12:00	141.60	70.90	432.65
GW10DB	10/12/98	574.250	09:20	131.80	9.80	442.45
GW10DB	10/19/98	574.250	09:40	171.30	-39.50	402.95
GW10DB	10/26/98	574.250	09:20	139.30	32.00	434.95
GW10DB	11/02/98	574.250	09:20	132.40	6.90	441.85
GW10DB	11/02/98	574.250	14:36	NM	NA	NA
GW10DB	11/09/98	574.250	09:20	134.30	-134.30	439.95
GW10DB	11/16/98	574.250	09:20	143.20	-8.90	431.05
GW10DB	11/23/98	574.250	10:00	141.30	1.90	432.95
GW10DB	11/30/98	574.250	10:00	138.50	2.80	435.75
GW10DB	12/03/98	574.250	11:45	84.00	54.50	490.25
GW10DB	12/07/98	574.250	09:00	135.80	-51.80	438.45
GW10DB	12/14/98	574.250	09:00	130.60	5.20	443.65

(1) Change in Water Elevation since last reported measurement

D = Dry NA = Not Available

(2) Measurements Based on NGVD 1929

O = Obstructed NM = Not Measured

(1) Change in Water Elevation since last reported measurement
(2) Measurements Based on NGVD 1929
O = Obstructed NM = Not Measured

Water Level Monitoring Results
January 1998 through December 1998
1998 Annual Monitoring Report
Linemaster Switch Corporation
Woodstock, Connecticut

SITE	DATE	MP ELEVATION ⁽²⁾ (feet)	TIME	DEPTH TO WATER (feet)	Δ WATER ELEV ⁽¹⁾ (feet)	WATER ELEV ⁽²⁾ (feet)
MW01DB	02/09/98	528.260	08:00	113.90	0.09	414.36
MW01DB	02/16/98	528.260	09:40	114.90	-1.00	413.36
MW01DB	02/23/98	528.260	08:00	115.30	-0.40	412.96
MW01DB	03/02/98	528.260	08:40	114.90	0.40	413.36
MW01DB	03/02/98	528.260	10:07	114.99	-0.09	413.27
MW01DB	03/09/98	528.260	08:00	116.20	-1.21	412.06
MW01DB	03/16/98	528.260	08:00	117.30	-1.10	410.96
MW01DB	03/23/98	528.260	08:00	117.40	-0.10	410.86
MW01DB	03/30/98	528.260	08:00	117.30	0.10	410.96
MW01DB	04/06/98	528.260	08:00	117.30	0.00	410.96
MW01DB	04/08/98	528.260	09:47	118.15	-0.85	410.11
MW01DB	04/13/98	528.260	08:00	117.20	0.95	411.06
MW01DB	04/20/98	528.260	08:00	118.20	-1.00	410.06
MW01DB	04/27/98	528.260	08:00	118.20	0.00	410.06
MW01DB	04/30/98	528.260	10:27	119.15	-0.95	409.11
MW01DB	05/04/98	528.260	08:15	115.30	3.85	412.96
MW01DB	05/11/98	528.260	08:40	114.50	0.80	413.76
MW01DB	05/18/98	528.260	08:20	114.50	0.00	413.76
MW01DB	05/26/98	528.260	08:00	113.90	0.60	414.36
MW01DB	06/01/98	528.260	07:00	114.00	-0.10	414.26
MW01DB	06/05/98	528.260	09:36	115.00	-1.00	413.26
MW01DB	06/08/98	528.260	07:00	115.30	-0.30	412.96
MW01DB	06/15/98	528.260	07:00	114.90	0.40	413.36
MW01DB	06/22/98	528.260	06:40	114.40	0.50	413.86
MW01DB	06/29/98	528.260	06:40	112.00	2.40	416.26
MW01DB	07/01/98	528.260	12:15	112.02	-0.02	416.24
MW01DB	07/06/98	528.260	06:40	111.20	0.82	417.06
MW01DB	07/13/98	528.260	07:40	110.90	0.30	417.36
MW01DB	07/20/98	528.260	06:40	111.30	-0.40	416.96
MW01DB	07/27/98	528.260	06:40	113.00	-1.70	415.26
MW01DB	08/03/98	528.260	06:40	114.60	-1.60	413.66
MW01DB	08/04/98	528.260	14:27	113.32	1.28	414.94
MW01DB	08/10/98	528.260	06:40	113.60	-0.28	414.66
MW01DB	08/17/98	528.260	07:40	113.70	-0.10	414.56
MW01DB	08/24/98	528.260	08:00	113.60	0.10	414.66
MW01DB	08/31/98	528.260	07:40	113.50	0.10	414.76


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MW01DB	09/01/98	528.260	15:14	114.13	-0.63	414.13
MW01DB	09/08/98	528.260	08:00	113.80	0.33	414.46
MW01DB	09/14/98	528.260	08:00	115.10	-1.30	413.16
MW01DB	09/21/98	528.260	11:20	116.10	-1.00	412.16
MW01DB	09/28/98	528.260	07:40	117.00	-0.90	411.26
MW01DB	10/01/98	528.260	10:21	118.16	-1.16	410.10
MW01DB	10/05/98	528.260	10:40	118.30	-0.14	409.96
MW01DB	10/12/98	528.260	08:00	117.20	1.10	411.06
MW01DB	10/19/98	528.260	08:20	115.80	1.40	412.46
MW01DB	10/26/98	528.260	08:00	114.50	1.30	413.76
MW01DB	11/02/98	528.260	08:00	114.80	-0.30	413.46
MW01DB	11/02/98	528.260	12:07	114.95	-0.15	413.31
MW01DB	11/09/98	528.260	08:00	115.80	-0.85	412.46
MW01DB	11/16/98	528.260	08:00	114.70	1.10	413.56
MW01DB	11/23/98	528.260	08:40	114.60	0.10	413.66
MW01DB	11/30/98	528.260	08:40	114.10	0.50	414.16
MW01DB	12/03/98	528.260	10:20	113.83	0.27	414.43
MW01DB	12/07/98	528.260	07:40	113.30	0.53	414.96
MW01DB	12/14/98	528.260	07:40	113.50	-0.20	414.76
MW01DB	12/21/98	528.260	08:00	114.70	-1.20	413.56
MW01DB	12/28/98	528.260	08:00	115.10	-0.40	413.16
MW01SB	01/02/98	528.440	14:48	86.86	NA	441.58
MW01SB	02/02/98	528.440	13:20	86.65	0.21	441.79
MW01SB	03/02/98	528.440	10:08	86.54	0.11	441.90
MW01SB	04/08/98	528.440	09:45	87.54	-1.00	440.90
MW01SB	04/30/98	528.440	10:25	88.71	-1.17	439.73
MW01SB	06/05/98	528.440	09:35	90.30	-1.59	438.14
MW01SB	07/01/98	528.440	12:14	88.07	2.23	440.37
MW01SB	08/04/98	528.440	14:25	90.90	-2.83	437.54
MW01SB	09/01/98	528.440	15:12	90.93	-0.03	437.51
MW01SB	10/01/98	528.440	10:19	90.92	0.01	437.52
MW01SB	11/02/98	528.440	12:08	D	NA	NA
MW01SB	12/03/98	528.440	10:18	90.07	-88.68	438.37
MW01T	01/02/98	528.460	14:49	24.79	NA	503.67

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MW01T	02/02/98	528.460	13:20	24.43	0.36	504.03
MW01T	03/02/98	528.460	10:06	24.30	0.13	504.16
MW01T	04/08/98	528.460	09:49	25.07	-0.77	503.39
MW01T	04/30/98	528.460	10:28	25.45	-0.38	503.01
MW01T	06/05/98	528.460	09:34	26.35	-0.90	502.11
MW01T	07/01/98	528.460	12:14	25.24	1.11	503.22
MW01T	08/04/98	528.460	14:28	27.91	-2.67	500.55
MW01T	09/01/98	528.460	15:15	29.50	-1.59	498.96
MW01T	10/01/98	528.460	10:20	30.60	-1.10	497.86
MW01T	11/02/98	528.460	12:09	27.76	2.84	500.70
MW01T	12/03/98	528.460	10:21	26.24	1.52	502.22
MW02T	01/02/98	563.600	13:13	12.78	NA	550.82
MW02T	02/02/98	563.600	15:13	11.91	0.87	551.69
MW02T	03/02/98	563.600	09:33	11.43	0.48	552.17
MW02T	04/08/98	563.600	08:52	11.81	-0.38	551.79
MW02T	04/30/98	563.600	09:29	11.99	-0.18	551.61
MW02T	06/05/98	563.600	09:05	13.64	-1.65	549.96
MW02T	07/01/98	563.600	11:56	12.18	1.46	551.42
MW02T	08/04/98	563.600	13:47	15.24	-3.06	548.36
MW02T	09/01/98	563.600	12:37	16.90	-1.66	546.70
MW02T	10/01/98	563.600	09:41	18.10	-1.20	545.50
MW02T	11/02/98	563.600	11:24	15.02	3.08	548.58
MW02T	12/03/98	563.600	09:27	14.26	0.76	549.34
MW03T	01/02/98	544.720	13:09	16.11	NA	528.61
MW03T	02/02/98	544.720	14:22	5.50	10.61	539.22
MW03T	03/02/98	544.720	09:12	3.75	1.75	540.97
MW03T	04/08/98	544.720	14:09	5.05	-1.30	539.67
MW03T	04/30/98	544.720	08:51	5.67	-0.62	539.05
MW03T	06/05/98	544.720	08:51	7.63	-1.96	537.09
MW03T	07/01/98	544.720	10:43	4.03	3.60	540.69
MW03T	08/04/98	544.720	13:25	10.85	-6.82	533.87
MW03T	09/01/98	544.720	12:10	13.40	-2.55	531.32
MW03T	10/01/98	544.720	09:19	14.91	-1.51	529.81
MW03T	11/02/98	544.720	10:40	14.63	0.28	530.09


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MW03T	12/03/98	544.720	09:08	14.23	0.40	530.49
MW04T	01/02/98	556.530	11:50	13.17	NA	543.36
MW04T	02/02/98	556.530	09:52	11.38	1.79	545.15
MW04T	03/02/98	556.520	11:21	10.90	0.47	545.62
MW04T	03/03/98	556.520	11:19	10.90	0.00	545.62
MW04T	04/08/98	556.520	10:24	11.17	-0.27	545.35
MW04T	04/24/98	556.520	14:10	13.09	-1.92	543.43
MW04T	04/30/98	556.520	12:05	11.85	1.24	544.67
MW04T	05/15/98	556.520	14:14	12.61	-0.76	543.91
MW04T	06/01/98	556.520	11:04	14.55	-1.94	541.97
MW04T	06/05/98	556.520	10:46	14.88	-0.33	541.64
MW04T	07/01/98	556.520	09:51	14.15	0.73	542.37
MW04T	08/04/98	556.520	12:05	17.12	-2.97	539.40
MW04T	09/01/98	556.520	16:13	19.49	-2.37	537.03
MW04T	10/01/98	556.520	14:07	20.82	-1.33	535.70
MW04T	11/02/98	556.520	10:14	17.45	3.37	539.07
MW04T	12/03/98	556.520	11:40	18.19	-0.74	538.33
MW04T	12/23/98	556.520	10:49	18.64	-0.45	537.88
MW05SB	01/02/98	538.890	13:04	29.71	NA	509.18
MW05SB	02/02/98	538.890	14:07	20.75	8.96	518.14
MW05SB	03/02/98	538.890	09:09	17.45	3.30	521.44
MW05SB	04/08/98	538.890	14:02	16.98	0.47	521.91
MW05SB	04/30/98	538.890	08:41	18.12	-1.14	520.77
MW05SB	06/05/98	538.890	08:50	20.20	-2.08	518.69
MW05SB	07/01/98	538.890	10:36	NM	NA	NA
MW05SB	08/04/98	538.890	13:19	22.59	-22.59	516.30
MW05SB	09/01/98	538.890	12:02	26.08	-3.49	512.81
MW05SB	10/01/98	538.890	09:11	28.62	-2.54	510.27
MW05SB	11/02/98	538.890	10:34	28.11	0.51	510.78
MW05SB	12/03/98	538.890	09:05	28.99	-0.88	509.90
MW06DB	01/02/98	504.420	14:48	73.20	NA	431.22
MW06DB	01/05/98	504.420	10:20	274.20	-201.00	230.22
MW06DB	01/12/98	504.420	07:40	274.50	-0.30	229.92

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MW06DB	01/19/98	504.420	07:40	275.00	-0.50	229.42
MW06DB	01/26/98	504.420	11:20	274.50	0.50	229.92
MW06DB	02/02/98	504.420	07:40	274.50	0.00	229.92
MW06DB	02/02/98	504.420	12:02	91.75	182.75	412.67
MW06DB	02/09/98	504.420	07:40	274.40	-182.65	230.02
MW06DB	02/16/98	504.420	09:20	274.10	0.30	230.32
MW06DB	02/23/98	504.420	07:40	274.40	-0.30	230.02
MW06DB	03/02/98	504.420	08:20	274.40	0.00	230.02
MW06DB	03/02/98	504.420	10:13	NM	NA	NA
MW06DB	03/09/98	504.420	07:40	274.40	-274.40	230.02
MW06DB	03/16/98	504.420	07:50	74.90	199.50	429.52
MW06DB	03/23/98	504.420	07:40	274.50	-199.60	229.92
MW06DB	03/30/98	504.420	07:40	271.20	3.30	233.22
MW06DB	04/06/98	504.420	07:40	274.50	-3.30	229.92
MW06DB	04/08/98	504.420	09:56	NM	NA	NA
MW06DB	04/13/98	504.420	07:40	274.50	-274.50	229.92
MW06DB	04/20/98	504.420	07:40	274.60	-0.10	229.82
MW06DB	04/27/98	504.420	07:40	274.50	0.10	229.92
MW06DB	04/30/98	504.420	10:50	273.60	0.90	230.82
MW06DB	05/04/98	504.420	07:50	274.40	-0.80	230.02
MW06DB	05/11/98	504.420	08:20	275.00	-0.60	229.42
MW06DB	05/18/98	504.420	07:40	273.10	1.90	231.32
MW06DB	05/26/98	504.420	07:40	274.50	-1.40	229.92
MW06DB	06/01/98	504.420	06:40	274.50	0.00	229.92
MW06DB	06/05/98	504.420	09:39	273.90	0.60	230.52
MW06DB	06/08/98	504.420	06:40	274.60	-0.70	229.82
MW06DB	06/15/98	504.420	06:40	274.70	-0.10	229.72
MW06DB	06/22/98	504.420	06:20	274.80	-0.10	229.62
MW06DB	06/29/98	504.420	06:20	274.70	0.10	229.72
MW06DB	07/01/98	504.420	12:17	273.80	0.90	230.62
MW06DB	07/06/98	504.420	06:20	274.50	-0.70	229.92
MW06DB	07/13/98	504.420	07:20	258.60	15.90	245.82
MW06DB	07/20/98	504.420	06:20	271.60	-13.00	232.82
MW06DB	07/27/98	504.420	06:20	274.70	-3.10	229.72
MW06DB	08/03/98	504.420	06:20	274.70	0.00	229.72
MW06DB	08/04/98	504.420	14:35	274.71	-0.01	229.71


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MW06DB	08/10/98	504.420	06:20	274.70	0.01	229.72
MW06DB	08/17/98	504.420	07:20	274.70	0.00	229.72
MW06DB	08/24/98	504.420	07:40	274.60	0.10	229.82
MW06DB	08/31/98	504.420	07:20	274.80	-0.20	229.62
MW06DB	09/01/98	504.420	15:28	65.28	209.52	439.14
MW06DB	09/08/98	504.420	07:40	274.70	-209.42	229.72
MW06DB	09/14/98	504.420	07:40	274.70	0.00	229.72
MW06DB	09/21/98	504.420	11:00	274.70	0.00	229.72
MW06DB	09/28/98	504.420	07:20	274.70	0.00	229.72
MW06DB	10/01/98	504.420	10:28	NM	NA	NA
MW06DB	10/05/98	504.420	10:20	274.80	-274.80	229.62
MW06DB	10/12/98	504.420	07:40	274.80	0.00	229.62
MW06DB	10/19/98	504.420	07:20	274.70	0.10	229.72
MW06DB	10/26/98	504.420	07:40	274.80	-0.10	229.62
MW06DB	11/02/98	504.420	07:40	274.80	0.00	229.62
MW06DB	11/02/98	504.420	13:20	NM	NA	NA
MW06DB	11/09/98	504.420	07:40	274.70	-274.70	229.72
MW06DB	11/16/98	504.420	07:40	274.80	-0.10	229.62
MW06DB	11/23/98	504.420	08:20	274.80	0.00	229.62
MW06DB	11/30/98	504.420	08:20	274.60	0.20	229.82
MW06DB	12/03/98	504.420	10:27	NM	NA	NA
MW06DB	12/07/98	504.420	07:20	274.50	-274.50	229.92
MW06DB	12/14/98	504.420	07:20	274.50	0.00	229.92
MW06DB	12/21/98	504.420	07:40	274.60	-0.10	229.82
MW06DB	12/28/98	504.420	07:40	274.10	0.50	230.32
MW06SB	01/02/98	500.850	15:02	8.78	NA	492.07
MW06SB	02/02/98	500.850	12:07	8.21	0.57	492.64
MW06SB	03/02/98	500.850	10:18	7.36	0.85	493.49
MW06SB	04/08/98	500.850	10:01	8.31	-0.95	492.54
MW06SB	04/30/98	500.850	10:42	8.37	-0.06	492.48
MW06SB	06/05/98	500.850	09:41	9.04	-0.67	491.81
MW06SB	07/01/98	500.850	12:18	7.35	1.69	493.50
MW06SB	08/04/98	500.850	14:34	11.94	-4.59	488.91
MW06SB	09/01/98	500.850	15:31	13.76	-1.82	487.09
MW06SB	10/01/98	500.850	10:28	15.14	-1.38	485.71

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MW06SB	11/02/98	500.850	13:23	12.12	3.02	488.73
MW06SB	12/03/98	500.850	10:30	11.18	0.94	489.67
MW06T	01/02/98	500.830	15:01	4.74	NA	496.09
MW06T	02/02/98	500.830	12:06	4.61	0.13	496.22
MW06T	03/02/98	500.830	10:17	3.88	0.73	496.95
MW06T	04/08/98	500.830	10:02	4.78	-0.90	496.05
MW06T	04/30/98	500.830	10:40	4.90	-0.12	495.93
MW06T	06/05/98	500.830	09:40	5.79	-0.89	495.04
MW06T	07/01/98	500.830	12:19	3.49	2.30	497.34
MW06T	08/04/98	500.830	14:33	9.22	-5.73	491.61
MW06T	09/01/98	500.830	15:30	10.73	-1.51	490.10
MW06T	10/01/98	500.830	10:27	11.99	-1.26	488.84
MW06T	11/02/98	500.830	13:25	9.32	2.67	491.51
MW06T	12/03/98	500.830	10:29	8.25	1.07	492.58
MW06T	12/23/98	500.830	10:52	8.89	-0.64	491.94
MW07SB	01/02/98	486.610	15:55	22.28	NA	464.33
MW07SB	02/02/98	486.610	12:20	12.60	9.68	474.01
MW07SB	03/02/98	486.610	10:21	12.14	0.46	474.47
MW07SB	04/08/98	486.610	10:10	13.18	-1.04	473.43
MW07SB	04/30/98	486.610	10:53	14.31	-1.13	472.30
MW07SB	06/05/98	486.610	10:09	16.95	-2.64	469.66
MW07SB	07/01/98	486.610	12:37	13.44	3.51	473.17
MW07SB	08/04/98	486.610	14:48	21.44	-8.00	465.17
MW07SB	09/01/98	486.610	14:06	23.61	-2.17	463.00
MW07SB	10/01/98	486.610	10:37	25.56	-1.95	461.05
MW07SB	11/02/98	486.610	13:29	25.51	0.05	461.10
MW07SB	12/03/98	486.610	10:37	23.15	2.36	463.46
MW08DB	01/02/98	437.620	15:46	30.60	NA	407.02
MW08DB	02/02/98	437.620	12:31	22.43	8.17	415.19
MW08DB	03/02/98	437.620	10:33	20.38	2.05	417.24
MW08DB	04/08/98	437.620	10:22	21.20	-0.82	416.42
MW08DB	04/30/98	437.620	11:19	21.99	-0.79	415.63
MW08DB	06/05/98	437.620	12:15	24.70	-2.71	412.92

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MW08DB	07/01/98	437.620	13:00	20.25	4.45	417.37
MW08DB	08/05/98	437.620	10:04	27.58	-7.33	410.04
MW08DB	09/01/98	437.620	14:15	31.84	-4.26	405.78
MW08DB	10/01/98	437.620	10:49	34.48	-2.64	403.14
MW08DB	11/02/98	437.620	13:55	31.14	3.34	406.48
MW08DB	12/03/98	437.620	11:01	31.63	-0.49	405.99
MW08SB	02/02/98	437.620	12:31	17.82	NA	419.80
MW08SB	03/02/98	437.620	10:32	7.00	10.82	430.62
MW08SB	04/08/98	437.620	10:21	8.92	-1.92	428.70
MW08SB	04/30/98	437.620	11:18	10.18	-1.26	427.44
MW08SB	06/05/98	437.620	10:24	13.72	-3.54	423.90
MW08SB	07/01/98	437.620	13:01	9.58	4.14	428.04
MW08SB	08/05/98	437.620	10:02	18.04	-8.46	419.58
MW08SB	09/01/98	437.620	14:19	23.91	-5.87	413.71
MW08SB	10/01/98	437.620	10:51	NM	NA	NA
MW08SB	11/02/98	437.620	13:59	23.10	-23.10	414.52
MW08SB	12/03/98	437.620	11:00	23.65	-0.55	413.97
MW08T	01/02/98	436.680	15:44	21.03	NA	415.65
MW08T	02/02/98	436.680	12:32	8.94	12.09	427.74
MW08T	03/02/98	436.680	10:32	7.05	1.89	429.63
MW08T	04/08/98	436.680	10:20	8.99	-1.94	427.69
MW08T	04/30/98	436.680	11:16	10.20	-1.21	426.48
MW08T	06/05/98	436.680	10:25	13.62	-3.42	423.06
MW08T	07/01/98	436.680	13:00	9.67	3.95	427.01
MW08T	08/05/98	436.680	10:03	18.07	-8.40	418.61
MW08T	09/01/98	436.680	14:18	D	NA	NA
MW08T	10/01/98	436.680	10:50	25.51	-23.97	411.17
MW08T	11/02/98	436.680	13:57	D	NA	NA
MW08T	12/03/98	436.680	10:59	D	NA	NA
MW09SB	01/02/98	469.930	16:05	7.26	NA	462.67
MW09SB	02/02/98	469.930	12:55	7.16	0.10	462.77
MW09SB	03/02/98	469.930	10:41	6.92	0.24	463.01
MW09SB	04/08/98	469.930	10:39	7.22	-0.30	462.71

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MW09SB	04/30/98	469.930	10:52	7.30	-0.08	462.63
MW09SB	06/05/98	469.930	10:13	7.63	-0.33	462.30
MW09SB	07/01/98	469.930	12:45	6.62	1.01	463.31
MW09SB	08/04/98	469.930	14:54	8.12	-1.50	461.81
MW09SB	09/01/98	469.930	12:28	8.39	-0.27	461.54
MW09SB	10/01/98	469.930	10:40	8.42	-0.03	461.51
MW09SB	11/02/98	469.930	13:37	7.55	0.87	462.38
MW09SB	12/03/98	469.930	10:41	7.49	0.06	462.44
MW10SB	06/01/98	564.710	09:11	57.40	NA	507.31
MW10SB	07/01/98	564.710	11:17	51.00	6.40	513.71
MW10SB	08/04/98	564.710	09:30	57.60	-6.60	507.11
MW11DB	01/02/98	490.160	13:42	66.45	NA	423.71
MW11DB	02/02/98	490.160	13:42	65.78	0.67	424.38
MW11DB	03/02/98	490.160	11:04	66.58	-0.80	423.58
MW11DB	04/09/98	490.160	10:55	59.55	7.03	430.61
MW11DB	04/30/98	490.160	11:53	69.99	-10.44	420.17
MW11DB	06/05/98	490.160	09:43	67.12	2.87	423.04
MW11DB	07/01/98	490.160	13:18	64.98	2.14	425.18
MW11DB	08/05/98	490.160	10:18	66.30	-1.32	423.86
MW11DB	09/01/98	490.160	13:42	66.48	-0.18	423.68
MW11DB	10/01/98	490.160	11:11	69.70	-3.22	420.46
MW11DB	11/02/98	490.160	14:12	56.36	13.34	433.80
MW11DB	12/03/98	490.160	11:15	65.08	-8.72	425.08
MW11SB	01/02/98	493.360	13:41	12.43	NA	480.93
MW11SB	02/02/98	493.360	13:40	8.40	4.03	484.96
MW11SB	03/02/98	493.360	11:07	7.62	0.78	485.74
MW11SB	04/09/98	493.360	10:59	8.58	-0.96	484.78
MW11SB	04/30/98	493.360	11:52	8.73	-0.15	484.63
MW11SB	06/05/98	493.360	10:39	9.29	-0.56	484.07
MW11SB	07/01/98	493.360	13:18	6.93	2.36	486.43
MW11SB	08/05/98	493.360	10:16	11.91	-4.98	481.45
MW11SB	09/01/98	493.360	13:40	13.37	-1.46	479.99
MW11SB	10/01/98	493.360	11:14	14.69	-1.32	478.67


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MW11SB	11/02/98	493.360	14:17	11.75	2.94	481.61
MW11SB	12/03/98	493.360	11:17	10.85	0.90	482.51
MW11T	01/02/98	493.480	13:40	11.63	NA	481.85
MW11T	02/02/98	493.480	13:43	6.67	4.96	486.81
MW11T	03/02/98	493.480	11:06	5.80	0.87	487.68
MW11T	04/09/98	493.480	10:57	6.87	-1.07	486.61
MW11T	04/30/98	493.480	11:50	7.03	-0.16	486.45
MW11T	06/05/98	493.480	10:38	7.77	-0.74	485.71
MW11T	07/01/98	493.480	13:18	4.95	2.82	488.53
MW11T	08/05/98	493.480	10:17	10.91	-5.96	482.57
MW11T	09/01/98	493.480	13:41	12.49	-1.58	480.99
MW11T	10/01/98	493.480	11:13	13.87	-1.38	479.61
MW11T	11/02/98	493.480	14:15	10.76	3.11	482.72
MW11T	12/03/98	493.480	11:16	9.85	0.91	483.63
MW12DB	01/02/98	455.080	16:16	61.19	NA	393.89
MW12DB	02/02/98	455.080	13:05	57.57	3.62	397.51
MW12DB	03/02/98	455.080	10:50	54.81	2.76	400.27
MW12DB	04/08/98	455.080	11:12	54.69	0.12	400.39
MW12DB	04/30/98	455.080	10:55	55.77	-1.08	399.31
MW12DB	06/05/98	455.080	08:35	57.62	-1.85	397.46
MW12DB	07/01/98	455.080	12:51	55.50	2.12	399.58
MW12DB	08/04/98	455.080	15:00	59.81	-4.31	395.27
MW12DB	09/01/98	455.080	13:55	62.73	-2.92	392.35
MW12DB	10/01/98	455.080	10:58	65.53	-2.80	389.55
MW12DB	11/02/98	455.080	13:42	61.81	3.72	393.27
MW12DB	12/03/98	455.080	10:49	61.60	0.21	393.48
MW12SB	01/02/98	455.730	16:18	5.17	NA	450.56
MW12SB	02/02/98	455.730	13:06	4.97	0.20	450.76
MW12SB	03/02/98	455.730	10:49	4.71	0.26	451.02
MW12SB	04/08/98	455.730	11:10	5.24	-0.53	450.49
MW12SB	04/30/98	455.730	10:58	5.41	-0.17	450.32
MW12SB	06/05/98	455.730	10:18	6.88	-1.47	448.85
MW12SB	07/01/98	455.730	12:50	4.30	2.58	451.43

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MW12SB	08/04/98	455.730	14:59	6.51	-2.21	449.22
MW12SB	09/01/98	455.730	13:54	6.76	-0.25	448.97
MW12SB	10/01/98	455.730	11:00	6.66	0.10	449.07
MW12SB	11/02/98	455.730	13:45	5.85	0.81	449.88
MW12SB	12/03/98	455.730	10:47	5.51	0.34	450.22
MW12T	01/02/98	455.510	16:16	4.38	NA	451.13
MW12T	02/02/98	455.510	13:05	4.18	0.20	451.33
MW12T	03/02/98	455.510	10:49	3.98	0.20	451.53
MW12T	04/08/98	455.510	11:08	4.43	-0.45	451.08
MW12T	04/30/98	455.510	10:57	4.56	-0.13	450.95
MW12T	06/05/98	455.510	10:17	4.95	-0.39	450.56
MW12T	07/01/98	455.510	12:50	3.65	1.30	451.86
MW12T	08/04/98	455.510	14:58	5.42	-1.77	450.09
MW12T	09/01/98	455.510	13:53	5.57	-0.15	449.94
MW12T	10/01/98	455.510	10:59	5.50	0.07	450.01
MW12T	11/02/98	455.510	13:43	4.90	0.60	450.61
MW12T	12/03/98	455.510	10:48	4.68	0.22	450.83
MW13DB	01/02/98	540.830	12:48	31.41	NA	509.42
MW13DB	02/02/98	540.830	14:02	20.65	10.76	520.18
MW13DB	03/02/98	540.830	09:04	25.40	-4.75	515.43
MW13DB	04/08/98	540.830	13:55	27.20	-1.80	513.63
MW13DB	04/30/98	540.830	08:35	26.28	0.92	514.55
MW13DB	06/05/98	540.830	07:15	42.52	-16.24	498.31
MW13DB	07/01/98	540.830	10:32	32.50	10.02	508.33
MW13DB	08/04/98	540.830	13:05	56.92	-24.42	483.91
MW13DB	09/01/98	540.830	11:50	81.23	-24.31	459.60
MW13DB	10/01/98	540.830	09:06	92.59	-11.36	448.24
MW13DB	11/02/98	540.830	10:29	62.93	29.66	477.90
MW13DB	12/03/98	540.830	08:59	44.61	18.32	496.22
MW14DB	01/02/98	442.350	15:23	61.59	NA	380.76
MW14DB	01/05/98	442.350	09:40	61.20	0.39	381.15
MW14DB	01/12/98	442.350	07:20	59.20	2.00	383.15
MW14DB	01/19/98	442.350	07:20	60.20	-1.00	382.15


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SITE	DATE	MP ELEVATION ⁽²⁾ (feet)	TIME	DEPTH TO WATER (feet)	 WATER ELEV ⁽¹⁾ (feet)	WATER ELEV ⁽²⁾ (feet)
MW14DB	01/26/98	442.350	11:00	58.60	1.60	383.75
MW14DB	02/02/98	442.350	07:20	57.90	0.70	384.45
MW14DB	02/02/98	442.350	12:28	58.15	-0.25	384.20
MW14DB	02/09/98	442.350	07:20	57.70	0.45	384.65
MW14DB	02/16/98	442.350	09:00	55.70	2.00	386.65
MW14DB	03/02/98	442.350	08:00	55.30	0.40	387.05
MW14DB	03/02/98	442.350	10:30	55.51	-0.21	386.84
MW14DB	03/09/98	442.350	07:20	55.90	-0.39	386.45
MW14DB	03/16/98	442.350	07:30	56.80	-0.90	385.55
MW14DB	03/23/98	442.350	07:20	54.60	2.20	387.75
MW14DB	03/30/98	442.350	07:20	55.50	-0.90	386.85
MW14DB	04/06/98	442.350	07:20	55.50	0.00	386.85
MW14DB	04/08/98	442.350	10:16	55.47	0.03	386.88
MW14DB	04/13/98	442.350	07:20	55.10	0.37	387.25
MW14DB	04/20/98	442.350	07:20	55.40	-0.30	386.95
MW14DB	04/27/98	442.350	07:20	55.60	-0.20	386.75
MW14DB	04/30/98	442.350	11:05	NM	NA	NA
MW14DB	05/04/98	442.350	07:30	56.40	-56.40	385.95
MW14DB	05/11/98	442.350	08:00	55.20	1.20	387.15
MW14DB	05/18/98	442.350	07:20	55.70	-0.50	386.65
MW14DB	05/26/98	442.350	07:20	57.60	-1.90	384.75
MW14DB	06/01/98	442.350	06:20	58.10	-0.50	384.25
MW14DB	06/05/98	442.350	10:22	58.50	-0.40	383.85
MW14DB	06/08/98	442.350	06:20	58.50	0.00	383.85
MW14DB	06/15/98	442.350	06:20	58.80	-0.30	383.55
MW14DB	06/22/98	442.350	06:00	56.60	2.20	385.75
MW14DB	06/29/98	442.350	06:00	56.90	-0.30	385.45
MW14DB	07/01/98	442.350	12:55	56.25	0.65	386.10
MW14DB	07/06/98	442.350	06:00	56.30	-0.05	386.05
MW14DB	07/13/98	442.350	07:00	58.30	-2.00	384.05
MW14DB	07/20/98	442.350	06:00	59.50	-1.20	382.85
MW14DB	07/27/98	442.350	06:00	59.80	-0.30	382.55
MW14DB	08/03/98	442.350	06:00	50.00	9.80	392.35
MW14DB	08/05/98	442.350	09:57	31.05	18.95	411.30
MW14DB	08/10/98	442.350	06:00	61.70	-30.65	380.65
MW14DB	08/17/98	442.350	07:00	64.00	-2.30	378.35

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MW14DB	08/24/98	442.350	07:20	62.40	1.60	379.95
MW14DB	08/31/98	442.350	07:00	63.00	-0.60	379.35
MW14DB	09/01/98	442.350	14:13	63.18	-0.18	379.17
MW14DB	09/08/98	442.350	07:20	64.50	-1.32	377.85
MW14DB	09/14/98	442.350	07:20	64.70	-0.20	377.65
MW14DB	09/21/98	442.350	10:40	65.40	-0.70	376.95
MW14DB	09/28/98	442.350	07:00	65.40	0.00	376.95
MW14DB	10/01/98	442.350	10:45	65.48	-0.08	376.87
MW14DB	10/05/98	442.350	10:00	65.70	-0.22	376.65
MW14DB	10/12/98	442.350	07:20	63.30	2.40	379.05
MW14DB	10/19/98	442.350	07:00	60.90	2.40	381.45
MW14DB	10/26/98	442.350	07:20	61.70	-0.80	380.65
MW14DB	11/02/98	442.350	07:20	62.40	-0.70	379.95
MW14DB	11/02/98	442.350	13:51	62.38	0.02	379.97
MW14DB	11/09/98	442.350	07:20	62.70	-0.32	379.65
MW14DB	11/16/98	442.350	08:40	160.60	-97.90	281.75
MW14DB	11/23/98	442.350	08:00	62.60	98.00	379.75
MW14DB	11/30/98	442.350	08:00	62.40	0.20	379.95
MW14DB	12/03/98	442.350	10:56	62.21	0.19	380.14
MW14DB	12/07/98	442.350	07:00	62.20	0.01	380.15
MW14DB	12/14/98	442.350	07:00	62.20	0.00	380.15
MW14DB	12/21/98	442.350	07:20	62.30	-0.10	380.05
MW14DB	12/28/98	442.350	07:20	62.50	-0.20	379.85
MW14SB	01/02/98	441.350	15:22	6.27	NA	435.08
MW14SB	02/02/98	441.350	12:28	11.88	-5.61	429.47
MW14SB	03/02/98	441.350	10:29	2.30	9.58	439.05
MW14SB	04/08/98	441.350	10:18	4.29	-1.99	437.06
MW14SB	04/30/98	441.350	11:00	5.28	-0.99	436.07
MW14SB	06/05/98	441.350	10:21	11.16	-5.88	430.19
MW14SB	07/01/98	441.350	12:55	NM	NA	NA
MW14SB	08/05/98	441.350	09:56	14.40	-14.40	426.95
MW14SB	09/01/98	441.350	14:11	17.22	-2.82	424.13
MW14SB	10/01/98	441.350	10:46	19.11	-1.89	422.24
MW14SB	11/02/98	441.350	13:50	14.20	4.91	427.15
MW14SB	12/03/98	441.350	10:54	14.40	-0.20	426.95


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MW15DB	01/02/98	551.380	14:11	109.15	NA	442.23
MW15DB	01/05/98	551.380	11:00	156.30	-47.15	395.08
MW15DB	01/12/98	551.380	08:40	154.70	1.60	396.68
MW15DB	01/19/98	551.380	08:40	161.00	-6.30	390.38
MW15DB	01/26/98	551.380	12:20	162.20	-1.20	389.18
MW15DB	02/02/98	551.380	08:40	160.80	1.40	390.58
MW15DB	02/02/98	551.380	13:41	161.12	-0.32	390.26
MW15DB	02/09/98	551.380	08:40	159.70	1.42	391.68
MW15DB	02/16/98	551.380	10:20	163.20	-3.50	388.18
MW15DB	02/23/98	551.380	08:40	164.30	-1.10	387.08
MW15DB	03/02/98	551.380	09:20	163.40	0.90	387.98
MW15DB	03/02/98	551.380	09:45	160.92	2.48	390.46
MW15DB	03/09/98	551.380	08:40	166.60	-5.68	384.78
MW15DB	03/16/98	551.380	08:50	167.00	-0.40	384.38
MW15DB	03/23/98	551.380	08:40	162.60	4.40	388.78
MW15DB	03/30/98	551.380	08:40	116.20	46.40	435.18
MW15DB	04/06/98	551.380	08:40	166.50	-50.30	384.88
MW15DB	04/08/98	551.380	09:15	163.15	3.35	388.23
MW15DB	04/13/98	551.380	08:40	166.50	-3.35	384.88
MW15DB	04/20/98	551.380	08:40	166.50	0.00	384.88
MW15DB	04/27/98	551.380	08:40	166.50	0.00	384.88
MW15DB	04/30/98	551.380	10:08	162.05	4.45	389.33
MW15DB	05/11/98	551.380	09:20	162.20	-0.15	389.18
MW15DB	05/18/98	551.380	08:40	161.70	0.50	389.68
MW15DB	05/26/98	551.380	08:40	155.50	6.20	395.88
MW15DB	06/01/98	551.380	07:40	163.40	-7.90	387.98
MW15DB	06/05/98	551.380	09:12	163.26	0.14	388.12
MW15DB	06/08/98	551.380	07:40	164.80	-1.54	386.58
MW15DB	06/15/98	551.380	07:40	163.60	1.20	387.78
MW15DB	06/22/98	551.380	07:20	163.40	0.20	387.98
MW15DB	06/29/98	551.380	07:20	161.80	1.60	389.58
MW15DB	07/01/98	551.380	12:04	156.45	5.35	394.93
MW15DB	07/06/98	551.380	07:20	160.20	-3.75	391.18
MW15DB	07/13/98	551.380	08:20	157.00	3.20	394.38
MW15DB	07/20/98	551.380	07:20	157.00	0.00	394.38
MW15DB	07/27/98	551.380	07:20	158.40	-1.40	392.98

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SITE	DATE	MP ELEVATION ⁽²⁾ (feet)	TIME	DEPTH TO WATER (feet)	△ WATER ELEV. ⁽¹⁾ (feet)	WATER ELEV. ⁽²⁾ (feet)
MW15DB	08/03/98	551.380	07:20	157.00	1.40	394.38
MW15DB	08/04/98	551.380	13:58	NM	NA	NA
MW15DB	08/10/98	551.380	07:20	159.50	-159.50	391.88
MW15DB	08/17/98	551.380	08:20	157.50	2.00	393.88
MW15DB	08/24/98	551.380	08:40	157.50	0.00	393.88
MW15DB	08/31/98	551.380	08:20	158.00	-0.50	393.38
MW15DB	09/01/98	551.380	14:56	156.47	1.53	394.91
MW15DB	09/08/98	551.380	08:40	159.60	-3.13	391.78
MW15DB	09/14/98	551.380	08:40	161.00	-1.40	390.38
MW15DB	09/21/98	551.380	12:00	161.10	-0.10	390.28
MW15DB	09/28/98	551.380	08:20	162.30	-1.20	389.08
MW15DB	10/01/98	551.380	10:02	163.72	-1.42	387.66
MW15DB	10/05/98	551.380	11:20	163.20	0.52	388.18
MW15DB	10/12/98	551.380	08:40	159.40	3.80	391.98
MW15DB	10/19/98	551.380	09:00	159.50	-0.10	391.88
MW15DB	10/26/98	551.380	08:40	157.50	2.00	393.88
MW15DB	11/02/98	551.380	08:40	160.10	-2.60	391.28
MW15DB	11/02/98	551.380	11:46	158.94	1.16	392.44
MW15DB	11/09/98	551.380	08:40	162.90	-3.96	388.48
MW15DB	11/16/98	551.380	07:20	62.60	100.30	488.78
MW15DB	11/23/98	551.380	09:20	160.50	-97.90	390.88
MW15DB	11/30/98	551.380	09:20	158.90	1.60	392.48
MW15DB	12/03/98	551.380	09:40	156.89	2.01	394.49
MW15DB	12/07/98	551.380	08:20	157.00	-0.11	394.38
MW15DB	12/14/98	551.380	08:20	159.30	-2.30	392.08
MW15DB	12/21/98	551.380	08:40	162.30	-3.00	389.08
MW15DB	12/28/98	551.380	08:40	159.10	3.20	392.28
MW15SB	01/05/98	552.470	13:19	127.02	NA	425.45
MW15SB	02/02/98	552.470	13:40	127.67	-0.65	424.80
MW15SB	03/02/98	552.470	09:44	127.76	-0.09	424.71
MW15SB	04/08/98	552.470	09:13	129.78	-2.02	422.69
MW15SB	04/30/98	552.470	10:02	128.98	0.80	423.49
MW15SB	06/05/98	552.470	09:10	127.97	1.01	424.50
MW15SB	07/01/98	552.470	12:04	125.32	2.65	427.15
MW15SB	08/04/98	552.470	13:56	126.22	-0.90	426.25


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MW15SB	09/01/98	552.470	14:54	126.55	-0.33	425.92
MW15SB	10/01/98	552.470	10:00	128.62	-2.07	423.85
MW15SB	11/02/98	552.470	11:42	125.90	2.72	426.57
MW15SB	12/03/98	552.470	09:38	123.99	1.91	428.48
MW15T	01/05/98	552.600	13:17	106.67	NA	445.93
MW15T	02/02/98	552.600	13:42	105.68	0.99	446.92
MW15T	03/02/98	552.600	09:43	105.81	-0.13	446.79
MW15T	04/08/98	552.600	09:12	107.42	-1.61	445.18
MW15T	04/30/98	552.600	10:00	107.22	0.20	445.38
MW15T	06/05/98	552.600	09:11	106.98	0.24	445.62
MW15T	07/01/98	552.600	12:02	105.30	1.68	447.30
MW15T	08/04/98	552.600	13:55	106.65	-1.35	445.95
MW15T	09/01/98	552.600	14:52	107.92	-1.27	444.68
MW15T	10/01/98	552.600	09:58	109.45	-1.53	443.15
MW15T	11/02/98	552.600	11:38	107.06	2.39	445.54
MW15T	12/03/98	552.600	09:36	105.25	1.81	447.35
MW17DB	01/02/98	560.310	12:36	NM	NA	NA
MW17DB	01/05/98	560.310	12:00	285.10	-285.10	275.21
MW17DB	01/12/98	560.310	09:40	284.60	0.50	275.71
MW17DB	01/19/98	560.310	09:40	275.40	9.20	284.91
MW17DB	01/26/98	560.310	13:20	284.50	-9.10	275.81
MW17DB	02/02/98	560.310	09:40	284.40	0.10	275.91
MW17DB	02/02/98	560.310	15:24	NM	NA	NA
MW17DB	02/09/98	560.310	09:40	284.60	-284.60	275.71
MW17DB	02/16/98	560.310	11:20	285.60	-1.00	274.71
MW17DB	02/23/98	560.310	09:40	285.40	0.20	274.91
MW17DB	03/02/98	560.310	08:55	NM	NA	NA
MW17DB	03/02/98	560.310	10:20	285.40	-285.40	274.91
MW17DB	03/09/98	560.310	09:40	285.40	0.00	274.91
MW17DB	03/16/98	560.310	09:50	269.00	16.40	291.31
MW17DB	03/23/98	560.310	09:40	285.40	-16.40	274.91
MW17DB	03/30/98	560.310	09:40	274.30	11.10	286.01
MW17DB	04/06/98	560.310	09:40	272.80	1.50	287.51
MW17DB	04/08/98	560.310	08:47	NM	NA	NA


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MW17DB	04/13/98	560.310	09:40	272.80	-272.80	287.51
MW17DB	04/20/98	560.310	09:40	272.40	0.40	287.91
MW17DB	04/27/98	560.310	09:40	272.80	-0.40	287.51
MW17DB	04/30/98	560.310	09:13	NM	NA	NA
MW17DB	05/04/98	560.310	10:00	270.00	-270.00	290.31
MW17DB	05/11/98	560.310	10:20	280.00	-10.00	280.31
MW17DB	05/26/98	560.310	09:40	272.50	7.50	287.81
MW17DB	06/01/98	560.310	08:40	272.40	0.10	287.91
MW17DB	06/05/98	560.310	08:45	NM	NA	NA
MW17DB	06/08/98	560.310	08:40	272.60	-272.60	287.71
MW17DB	06/15/98	560.310	08:40	272.40	0.20	287.91
MW17DB	06/22/98	560.310	08:20	290.00	-17.60	270.31
MW17DB	06/29/98	560.310	08:20	289.60	0.40	270.71
MW17DB	07/01/98	560.310	10:30	NM	NA	NA
MW17DB	07/06/98	560.310	08:20	272.60	-272.60	287.71
MW17DB	07/13/98	560.310	09:20	298.00	-25.40	262.31
MW17DB	07/20/98	560.310	08:20	291.00	7.00	269.31
MW17DB	07/27/98	560.310	08:20	275.00	16.00	285.31
MW17DB	08/03/98	560.310	08:20	300.00	-25.00	260.31
MW17DB	08/04/98	560.310	12:57	NM	NA	NA
MW17DB	08/10/98	560.310	08:20	292.50	-292.50	267.81
MW17DB	08/17/98	560.310	09:20	290.40	2.10	269.91
MW17DB	08/24/98	560.310	09:40	298.40	-8.00	261.91
MW17DB	08/31/98	560.310	09:20	290.30	8.10	270.01
MW17DB	09/01/98	560.310	11:24	NM	NA	NA
MW17DB	09/08/98	560.310	09:40	298.20	-298.20	262.11
MW17DB	09/14/98	560.310	09:40	292.10	6.10	268.21
MW17DB	09/21/98	560.310	13:00	295.90	-3.80	264.41
MW17DB	09/28/98	560.310	09:40	281.30	14.60	279.01
MW17DB	10/01/98	560.310	09:00	NM	NA	NA
MW17DB	10/05/98	560.310	12:20	282.50	-282.50	277.81
MW17DB	10/12/98	560.310	09:40	283.50	-1.00	276.81
MW17DB	10/19/98	560.310	10:00	NM	NA	NA
MW17DB	10/26/98	560.310	09:40	274.90	-274.90	285.41
MW17DB	11/02/98	560.310	09:40	273.80	1.10	286.51
MW17DB	11/02/98	560.310	09:57	NM	NA	NA


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MW17DB	11/09/98	560.310	09:40	NM	NA	NA
MW17DB	11/16/98	560.310	09:40	NM	NA	NA
MW17DB	11/23/98	560.310	10:21	NM	NA	NA
MW17DB	11/30/98	560.310	10:20	NM	NA	NA
MW17DB	12/03/98	560.310	08:55	NM	NA	NA
MW17DB	12/07/98	560.310	09:20	NM	NA	NA
MW17DB	12/14/98	560.310	09:20	NM	NA	NA
MW17DB	12/21/98	560.310	09:40	NM	NA	NA
MW17DB	12/28/98	560.310	09:40	NM	NA	NA
MW17SB	01/02/98	560.320	12:36	25.26	NA	535.06
MW17SB	02/02/98	560.320	15:23	24.43	0.83	535.89
MW17SB	03/02/98	560.320	08:53	23.90	0.53	536.42
MW17SB	04/08/98	560.320	08:45	45.46	-21.56	514.86
MW17SB	04/30/98	560.320	09:12	26.94	18.52	533.38
MW17SB	06/05/98	560.320	08:43	28.35	-1.41	531.97
MW17SB	07/01/98	560.320	10:27	27.02	1.33	533.30
MW17SB	08/04/98	560.320	12:52	29.80	-2.78	530.52
MW17SB	09/01/98	560.320	11:31	31.45	-1.65	528.87
MW17SB	10/01/98	560.320	08:56	32.19	-0.74	528.13
MW17SB	11/02/98	560.320	09:56	29.00	3.19	531.32
MW17SB	12/03/98	560.320	08:54	27.69	1.31	532.63
MW17TD	01/02/98	560.090	12:44	12.70	NA	547.39
MW17TD	02/02/98	560.090	15:23	10.65	2.05	549.44
MW17TD	03/02/98	560.090	08:52	10.70	-0.05	549.39
MW17TD	04/08/98	560.090	08:42	11.32	-0.62	548.77
MW17TD	04/30/98	560.090	09:10	13.20	-1.88	546.89
MW17TD	06/05/98	560.090	08:42	13.72	-0.52	546.37
MW17TD	07/01/98	560.090	10:28	12.08	1.64	548.01
MW17TD	08/04/98	560.090	12:52	14.58	-2.50	545.51
MW17TD	09/01/98	560.090	11:34	18.70	-4.12	541.39
MW17TD	10/01/98	560.090	08:57	18.16	0.54	541.93
MW17TD	11/02/98	560.090	09:54	16.41	1.75	543.68
MW17TD	12/03/98	560.090	08:53	14.61	1.80	545.48
MW17TD	12/23/98	560.090	10:46	15.61	-1.00	544.48

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MW17TS	01/02/98	559.860	12:43	2.62	NA	557.24
MW17TS	02/02/98	559.860	15:22	2.33	0.29	557.53
MW17TS	03/02/98	559.860	08:51	1.72	0.61	558.14
MW17TS	04/08/98	559.860	08:40	2.48	-0.76	557.38
MW17TS	04/30/98	559.860	09:09	2.72	-0.24	557.14
MW17TS	06/05/98	559.860	08:41	4.12	-1.40	555.74
MW17TS	07/01/98	559.860	10:27	1.43	2.69	558.43
MW17TS	08/04/98	559.860	12:50	5.99	-4.56	553.87
MW17TS	09/01/98	559.860	11:32	7.98	-1.99	551.88
MW17TS	10/01/98	559.860	08:57	9.35	-1.37	550.51
MW17TS	11/02/98	559.860	09:52	5.26	4.09	554.60
MW17TS	12/03/98	559.860	08:53	4.64	0.62	555.22
MW17TS	12/23/98	559.860	10:45	4.77	-0.13	555.09
MW18DB	01/02/98	465.930	13:49	66.47	NA	399.46
MW18DB	02/02/98	465.930	15:37	63.60	2.87	402.33
MW18DB	03/02/98	465.930	10:54	61.05	2.55	404.88
MW18DB	04/08/98	465.930	10:45	60.91	0.14	405.02
MW18DB	04/30/98	465.930	11:43	61.55	-0.64	404.38
MW18DB	06/05/98	465.930	08:00	63.04	-1.49	402.89
MW18DB	07/01/98	465.930	13:16	62.10	0.94	403.83
MW18DB	08/05/98	465.930	10:24	65.80	-3.70	400.13
MW18DB	09/01/98	465.930	13:32	67.28	-1.48	398.65
MW18DB	10/01/98	465.930	11:17	69.19	-1.91	396.74
MW18DB	11/02/98	465.930	14:19	66.44	2.75	399.49
MW18DB	12/03/98	465.930	11:22	66.40	0.04	399.53
MW18SB	01/02/98	466.610	13:50	3.31	NA	463.30
MW18SB	02/02/98	466.610	15:36	4.20	-0.89	462.41
MW18SB	03/02/98	466.610	10:53	3.87	0.33	462.74
MW18SB	04/08/98	466.610	10:44	4.46	-0.59	462.15
MW18SB	04/30/98	466.610	11:42	4.55	-0.09	462.06
MW18SB	06/05/98	466.610	10:40	5.05	-0.50	461.56
MW18SB	07/01/98	466.610	13:17	3.28	1.77	463.33
MW18SB	08/05/98	466.610	10:22	5.86	-2.58	460.75
MW18SB	09/01/98	466.610	13:33	5.96	-0.10	460.65

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MW20SB	07/01/98	427.620	13:04	4.65	6.54	422.97
MW20SB	08/05/98	427.620	09:59	12.76	-8.11	414.86
MW20SB	09/01/98	427.620	14:24	15.66	-2.90	411.96
MW20SB	10/01/98	427.620	10:53	17.85	-2.19	409.77
MW20SB	11/02/98	427.620	14:00	13.71	4.14	413.91
MW20SB	12/03/98	427.620	11:02	12.46	1.25	415.16
MW21DB	01/02/98	549.290	12:51	88.20	NA	461.09
MW21DB	02/02/98	549.290	14:02	92.62	-4.42	456.67
MW21DB	03/02/98	549.290	09:02	89.50	3.12	459.79
MW21DB	04/08/98	549.290	14:04	105.21	-15.71	444.08
MW21DB	04/30/98	549.290	08:46	96.65	8.56	452.64
MW21DB	06/05/98	549.290	07:07	111.65	-15.00	437.64
MW21DB	07/01/98	549.290	10:38	103.20	8.45	446.09
MW21DB	08/04/98	549.290	13:20	133.88	-30.68	415.41
MW21DB	09/01/98	549.290	11:59	108.25	25.63	441.04
MW21DB	10/01/98	549.290	09:13	111.95	-3.70	437.34
MW21DB	11/02/98	549.290	10:36	95.29	16.66	454.00
MW21DB	12/03/98	549.290	09:06	95.67	-0.38	453.62
MW22DB	01/02/98	504.520	12:57	34.32	NA	470.20
MW22DB	02/02/98	504.520	14:14	27.55	6.77	476.97
MW22DB	03/02/98	504.520	09:07	25.40	2.15	479.12
MW22DB	04/08/98	504.520	13:59	28.18	-2.78	476.34
MW22DB	04/30/98	504.520	08:38	28.57	-0.39	475.95
MW22DB	06/05/98	504.520	07:00	30.94	-2.37	473.58
MW22DB	07/01/98	504.520	10:33	28.62	2.32	475.90
MW22DB	08/04/98	504.520	13:09	32.45	-3.83	472.07
MW22DB	09/01/98	504.520	12:04	34.05	-1.60	470.47
MW22DB	10/01/98	504.520	09:09	36.51	-2.46	468.01
MW22DB	11/02/98	504.520	10:31	34.20	2.31	470.32
MW22DB	12/03/98	504.520	09:02	33.02	1.18	471.50
MW23T	01/02/98	569.620	12:20	NM	NA	NA
MW23T	02/02/98	569.620	15:10	3.20	-3.20	566.42
MW23T	03/02/98	569.620	09:26	2.04	1.16	567.58


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MW23T	04/08/98	569.620	14:25	3.02	-0.98	566.60
MW23T	04/30/98	569.620	09:32	3.35	-0.33	566.27
MW23T	06/05/98	569.620	08:57	4.52	-1.17	565.10
MW23T	07/01/98	569.620	11:51	3.03	1.49	566.59
MW23T	08/04/98	569.620	13:38	7.79	-4.76	561.83
MW23T	09/01/98	569.620	12:18	10.32	-2.53	559.30
MW23T	10/01/98	569.620	09:31	12.51	-2.19	557.11
MW23T	11/02/98	569.620	11:12	10.14	2.37	559.48
MW23T	12/03/98	569.620	09:20	10.03	0.11	559.59
MW24T	01/02/98	567.670	13:33	3.32	NA	564.35
MW24T	02/02/98	567.670	14:58	5.57	-2.25	562.10
MW24T	03/02/98	567.670	09:25	4.91	0.66	562.76
MW24T	04/08/98	567.670	08:47	5.70	-0.79	561.97
MW24T	04/30/98	567.670	09:30	5.99	-0.29	561.68
MW24T	06/05/98	567.670	08:59	7.17	-1.18	560.50
MW24T	07/01/98	567.670	11:50	6.45	0.72	561.22
MW24T	08/04/98	567.670	13:45	9.71	-3.26	557.96
MW24T	09/01/98	567.670	16:19	11.62	-1.91	556.05
MW24T	10/01/98	567.670	09:31	13.39	-1.77	554.28
MW24T	11/02/98	567.670	11:11	12.05	1.34	555.62
MW24T	12/03/98	567.670	09:18	11.78	0.27	555.89
MW25T	01/02/98	570.340	14:07	4.16	NA	566.18
MW25T	02/02/98	570.340	14:40	2.93	1.23	567.41
MW25T	03/02/98	570.340	09:22	2.36	0.57	567.98
MW25T	04/08/98	570.340	08:50	2.95	-0.59	567.39
MW25T	04/30/98	570.340	09:35	2.80	0.15	567.54
MW25T	06/05/98	570.340	08:58	3.39	-0.59	566.95
MW25T	07/01/98	570.340	11:50	2.90	0.49	567.44
MW25T	08/04/98	570.340	13:37	6.39	-3.49	563.95
MW25T	09/01/98	570.340	12:19	7.80	-1.41	562.54
MW25T	10/01/98	570.340	09:29	9.65	-1.85	560.69
MW25T	11/02/98	570.340	11:08	7.99	1.66	562.35
MW25T	12/03/98	570.340	09:17	8.60	-0.61	561.74


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SITE	DATE	MP ELEVATION ⁽²⁾ (feet)	TIME	DEPTH TO WATER (feet)	 WATER ELEV ⁽¹⁾ (feet)	WATER ELEV. ⁽²⁾ (feet)
MW26T	01/02/98	569.650	11:53	27.10	NA	542.55
MW26T	02/02/98	569.650	10:52	25.88	1.22	543.77
MW26T	03/02/98	569.620	11:19	25.58	0.27	544.04
MW26T	03/03/98	569.620	11:21	25.58	0.00	544.04
MW26T	04/08/98	569.620	10:27	27.69	-2.11	541.93
MW26T	04/24/98	569.620	14:15	26.60	1.09	543.02
MW26T	04/30/98	569.620	12:06	27.72	-1.12	541.90
MW26T	05/15/98	569.620	12:59	30.19	-2.47	539.43
MW26T	06/01/98	569.620	13:55	30.92	-0.73	538.70
MW26T	06/05/98	569.620	10:48	31.11	-0.19	538.51
MW26T	07/01/98	569.620	08:49	30.80	0.31	538.82
MW26T	08/04/98	569.620	11:07	31.82	-1.02	537.80
MW26T	09/01/98	569.620	16:15	32.66	-0.84	536.96
MW26T	10/01/98	569.620	14:05	33.41	-0.75	536.21
MW26T	11/02/98	569.620	10:11	32.31	1.10	537.31
MW26T	12/03/98	569.620	11:38	32.00	0.31	537.62
MW26T	12/23/98	569.620	10:48	34.95	-2.95	534.67
MW27DB	01/05/98	539.070	13:10	133.85	NA	405.22
MW27DB	02/02/98	539.070	13:28	113.51	20.34	425.56
MW27DB	03/02/98	539.070	09:55	114.42	-0.91	424.65
MW27DB	04/08/98	539.070	09:23	117.11	-2.69	421.96
MW27DB	04/30/98	539.070	10:12	117.56	-0.45	421.51
MW27DB	06/05/98	539.070	12:14	115.55	2.01	423.52
MW27DB	07/01/98	539.070	12:12	112.40	3.15	426.67
MW27DB	08/04/98	539.070	14:12	113.05	-0.65	426.02
MW27DB	09/01/98	539.070	15:08	113.71	-0.66	425.36
MW27DB	10/01/98	539.070	10:07	116.96	-3.25	422.11
MW27DB	11/02/98	539.070	11:58	113.13	3.83	425.94
MW27DB	12/03/98	539.070	10:09	112.34	0.79	426.73
MW27SB	01/05/98	537.140	13:08	101.34	NA	435.80
MW27SB	02/02/98	537.140	13:30	99.94	1.40	437.20
MW27SB	03/02/98	537.140	09:54	97.95	1.99	439.19
MW27SB	04/08/98	537.140	09:25	101.96	-4.01	435.18
MW27SB	04/30/98	537.140	10:15	101.23	0.73	435.91

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MW27SB	06/05/98	537.140	09:15	99.11	2.12	438.03
MW27SB	07/01/98	537.140	12:11	96.58	2.53	440.56
MW27SB	08/04/98	537.140	14:10	98.58	-2.00	438.56
MW27SB	09/01/98	537.140	15:05	99.57	-0.99	437.57
MW27SB	10/01/98	537.140	10:10	100.82	-1.25	436.32
MW27SB	11/02/98	537.140	11:51	100.46	0.36	436.68
MW27SB	12/03/98	537.140	10:08	97.37	3.09	439.77
MW27T	01/02/98	537.700	14:42	96.89	NA	440.81
MW27T	02/02/98	537.700	13:28	94.13	2.76	443.57
MW27T	03/02/98	537.700	09:52	93.96	0.17	443.74
MW27T	04/08/98	537.700	09:27	96.01	-2.05	441.69
MW27T	04/30/98	537.700	10:17	95.95	0.06	441.75
MW27T	06/05/98	537.700	09:14	94.34	1.61	443.36
MW27T	07/01/98	537.700	12:11	91.57	2.77	446.13
MW27T	08/04/98	537.700	14:09	93.21	-1.64	444.49
MW27T	09/01/98	537.700	15:07	94.41	-1.20	443.29
MW27T	10/01/98	537.700	10:08	95.63	-1.22	442.07
MW27T	11/02/98	537.700	11:49	93.91	1.72	443.79
MW27T	12/03/98	537.700	10:07	93.21	0.70	444.49
MW28DB	01/02/98	570.240	12:30	77.02	NA	493.22
MW28DB	02/02/98	570.240	14:26	74.30	2.72	495.94
MW28DB	03/02/98	570.240	09:17	76.90	-2.60	493.34
MW28DB	04/08/98	570.240	14:21	75.84	1.06	494.40
MW28DB	04/30/98	570.240	08:57	74.10	1.74	496.14
MW28DB	06/05/98	570.240	10:00	76.84	-2.74	493.40
MW28DB	07/01/98	570.240	11:47	82.69	-5.85	487.55
MW28DB	08/04/98	570.240	13:32	84.21	-1.52	486.03
MW28DB	09/01/98	570.240	12:13	98.18	-13.97	472.06
MW28DB	10/01/98	570.240	09:24	89.63	8.55	480.61
MW28DB	11/02/98	570.240	11:00	83.92	5.71	486.32
MW28DB	12/03/98	570.240	09:13	87.88	-3.96	482.36
MW28SB	01/02/98	571.490	12:29	18.38	NA	553.11
MW28SB	02/02/98	571.490	14:25	18.85	-0.47	552.64

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MW28SB	03/02/98	571.490	09:16	18.05	0.80	553.44
MW28SB	04/08/98	571.490	14:19	18.84	-0.79	552.65
MW28SB	04/30/98	571.490	08:54	19.08	-0.24	552.41
MW28SB	06/05/98	571.490	08:53	20.34	-1.26	551.15
MW28SB	07/01/98	571.490	11:46	19.25	1.09	552.24
MW28SB	08/04/98	571.490	13:30	22.42	-3.17	549.07
MW28SB	09/01/98	571.490	12:12	23.44	-1.02	548.05
MW28SB	10/01/98	571.490	09:22	24.46	-1.02	547.03
MW28SB	11/02/98	571.490	10:58	21.07	3.39	550.42
MW28SB	12/03/98	571.490	09:11	19.98	1.09	551.51
MW28T	01/02/98	567.660	12:28	NM	NA	NA
MW28T	02/02/98	567.660	14:25	NM	NA	NA
MW28T	03/02/98	567.660	09:15	1.75	-1.75	565.91
MW28T	04/08/98	567.660	14:20	3.78	-2.03	563.88
MW28T	04/30/98	567.660	08:55	4.52	-0.74	563.14
MW28T	06/05/98	567.660	08:52	3.72	0.80	563.94
MW28T	07/01/98	567.660	11:45	1.65	2.07	566.01
MW28T	08/04/98	567.660	13:29	7.66	-6.01	560.00
MW28T	09/01/98	567.660	12:14	8.77	-1.11	558.89
MW28T	10/01/98	567.660	09:23	2.99	5.78	564.67
MW28T	11/02/98	567.660	10:59	6.01	-3.02	561.65
MW28T	12/03/98	567.660	09:12	5.05	0.96	562.61
MW29DB	01/02/98	551.780	13:17	111.34	NA	440.44
MW29DB	02/02/98	551.780	13:50	110.86	0.48	440.92
MW29DB	03/02/98	551.780	09:35	111.87	-1.01	439.91
MW29DB	04/08/98	551.780	09:06	114.12	-2.25	437.66
MW29DB	04/30/98	551.780	09:50	112.65	1.47	439.13
MW29DB	06/05/98	551.780	07:15	111.88	0.77	439.90
MW29DB	07/01/98	551.780	11:58	109.68	2.20	442.10
MW29DB	09/01/98	551.780	12:33	112.08	-2.40	439.70
MW29DB	10/01/98	551.780	09:50	114.93	-2.85	436.85
MW29DB	11/02/98	551.780	11:30	112.24	2.69	439.54
MW29DB	12/03/98	551.780	09:29	109.58	2.66	442.20


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MW29SB	01/02/98	551.040	13:16	35.41	NA	515.63
MW29SB	02/02/98	551.040	13:51	34.09	1.32	516.95
MW29SB	03/02/98	551.040	09:34	34.06	0.03	516.98
MW29SB	04/08/98	551.040	09:08	34.47	-0.41	516.57
MW29SB	04/30/98	551.040	09:52	34.95	-0.48	516.09
MW29SB	06/05/98	551.040	09:06	35.47	-0.52	515.57
MW29SB	07/01/98	551.040	11:57	34.81	0.66	516.23
MW29SB	08/04/98	551.040	13:48	36.36	-1.55	514.68
MW29SB	09/01/98	551.040	12:35	38.01	-1.65	513.03
MW29SB	10/01/98	551.040	09:43	37.89	0.12	513.15
MW29SB	11/02/98	551.040	11:26	35.35	2.54	515.69
MW29SB	12/03/98	551.040	09:28	35.23	0.12	515.81
MW29T	01/02/98	554.590	13:22	25.15	NA	529.44
MW29T	02/02/98	554.590	13:50	24.30	0.85	530.29
MW29T	03/02/98	554.590	09:36	24.10	0.20	530.49
MW29T	04/08/98	554.590	09:09	24.06	0.04	530.53
MW29T	04/30/98	554.590	09:55	24.45	-0.39	530.14
MW29T	06/05/98	554.590	09:07	25.39	-0.94	529.20
MW29T	07/01/98	554.590	11:58	25.20	0.19	529.39
MW29T	08/04/98	554.590	13:51	26.46	-1.26	528.13
MW29T	09/01/98	554.590	12:32	28.44	-1.98	526.15
MW29T	10/01/98	554.590	09:42	28.21	0.23	526.38
MW29T	11/02/98	554.590	11:28	25.07	3.14	529.52
MW29T	12/03/98	554.590	09:30	25.18	-0.11	529.41
MW30TD	01/02/98	573.340	12:20	10.45	NA	562.89
MW30TD	02/02/98	573.340	14:41	10.52	-0.07	562.82
MW30TD	03/02/98	573.340	09:19	9.85	0.67	563.49
MW30TD	04/08/98	573.340	09:47	10.33	-0.48	563.01
MW30TD	04/30/98	573.340	09:20	10.44	-0.11	562.90
MW30TD	06/05/98	573.340	08:56	10.95	-0.51	562.39
MW30TD	07/01/98	573.340	11:48	10.41	0.54	562.93
MW30TD	08/04/98	573.340	13:35	12.34	-1.93	561.00
MW30TD	09/01/98	573.340	12:17	13.48	-1.14	559.86
MW30TD	10/01/98	573.340	09:28	14.82	-1.34	558.52

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MW32T	04/30/98	564.290	09:42	12.10	-0.50	552.19
MW32T	06/05/98	564.290	09:04	13.21	-1.11	551.08
MW32T	07/01/98	564.290	11:55	11.35	1.86	552.94
MW32T	08/04/98	564.290	13:43	15.45	-4.10	548.84
MW32T	09/01/98	564.290	12:29	16.82	-1.37	547.47
MW32T	10/01/98	564.290	09:38	18.06	-1.24	546.23
MW32T	11/02/98	564.290	11:21	15.20	2.86	549.09
MW32T	12/03/98	564.290	09:25	15.95	-0.75	548.34
MW33T	01/02/98	538.100	13:54	7.91	NA	530.19
MW33T	02/02/98	538.100	15:26	7.74	0.17	530.36
MW33T	03/02/98	538.100	10:10	7.22	0.52	530.88
MW33T	04/08/98	538.100	11:05	8.13	-0.91	529.97
MW33T	04/30/98	538.100	12:00	8.27	-0.14	529.83
MW33T	06/05/98	538.100	10:45	9.51	-1.24	528.59
MW33T	07/01/98	538.100	13:25	7.99	1.52	530.11
MW33T	08/04/98	538.100	14:30	12.26	-4.27	525.84
MW33T	09/01/98	538.100	15:18	13.17	-0.91	524.93
MW33T	11/02/98	538.100	12:19	11.88	1.29	526.22
MW33T	12/03/98	538.100	10:23	10.67	1.21	527.43
MW33T	12/23/98	538.100	10:50	11.76	-1.09	526.34
MW34T	01/02/98	559.440	14:15	NM	NA	NA
MW34T	02/02/98	559.440	13:45	51.00	-51.00	508.44
MW34T	03/02/98	559.440	09:40	46.40	4.60	513.04
MW34T	04/08/98	559.440	09:03	50.28	-3.88	509.16
MW34T	04/30/98	559.440	10:03	51.15	-0.87	508.29
MW34T	06/05/98	559.440	09:08	51.70	-0.55	507.74
MW34T	07/01/98	559.440	11:59	49.30	2.40	510.14
MW34T	08/04/98	559.440	13:53	52.32	-3.02	507.12
MW34T	09/01/98	559.440	14:50	54.60	-2.28	504.84
MW34T	10/01/98	559.440	09:49	55.56	-0.96	503.88
MW34T	11/02/98	559.440	11:32	53.88	1.68	505.56
MW34T	12/03/98	559.440	09:32	54.96	-1.08	504.48
MWEPAASB	01/02/98	569.930	13:26	45.60	NA	524.33


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MWEPAASB	02/02/98	569.930	15:02	44.39	1.21	525.54
MWEPAASB	03/02/98	569.930	09:28	44.05	0.34	525.88
MWEPAASB	04/08/98	569.930	08:55	44.50	-0.45	525.43
MWEPAASB	04/30/98	569.930	09:38	44.72	-0.22	525.21
MWEPAASB	06/05/98	569.930	09:02	6.85	37.87	563.08
MWEPAASB	07/01/98	569.930	11:51	44.95	-38.10	524.98
MWEPAASB	08/04/98	569.930	13:40	47.36	-2.41	522.57
MWEPAASB	09/01/98	569.930	12:23	48.70	-1.34	521.23
MWEPAASB	10/01/98	569.930	09:34	49.51	-0.81	520.42
MWEPAASB	11/02/98	569.930	11:15	46.92	2.59	523.01
MWEPAASB	12/03/98	569.930	09:22	45.98	0.94	523.95
MWEPAATD	01/02/98	570.000	13:27	31.60	NA	538.40
MWEPAATD	02/02/98	570.000	15:01	30.42	1.18	539.58
MWEPAATD	03/02/98	570.000	09:29	29.66	0.76	540.34
MWEPAATD	04/08/98	570.000	08:54	30.11	-0.45	539.89
MWEPAATD	04/30/98	570.000	09:37	30.49	-0.38	539.51
MWEPAATD	06/05/98	570.000	09:00	31.73	-1.24	538.27
MWEPAATD	07/01/98	570.000	11:51	30.95	0.78	539.05
MWEPAATD	08/04/98	570.000	13:41	35.53	-4.58	534.47
MWEPAATD	09/01/98	570.000	12:24	35.14	0.39	534.86
MWEPAATD	10/01/98	570.000	09:33	36.23	-1.09	533.77
MWEPAATD	11/02/98	570.000	11:14	33.82	2.41	536.18
MWEPAATD	12/03/98	570.000	09:21	33.44	0.38	536.56
MWEPAATS	01/02/98	570.360	13:25	6.41	NA	563.95
MWEPAATS	02/02/98	570.360	15:00	5.66	0.75	564.70
MWEPAATS	03/02/98	570.360	09:27	4.20	1.46	566.16
MWEPAATS	04/08/98	570.360	08:56	5.34	-1.14	565.02
MWEPAATS	04/30/98	570.360	09:37	5.71	-0.37	564.65
MWEPAATS	06/05/98	570.360	09:01	45.76	-40.05	524.60
MWEPAATS	07/01/98	570.360	11:52	5.45	40.31	564.91
MWEPAATS	08/04/98	570.360	13:39	10.07	-4.62	560.29
MWEPAATS	09/01/98	570.360	12:22	12.23	-2.16	558.13
MWEPAATS	10/01/98	570.360	09:35	13.77	-1.54	556.59
MWEPAATS	11/02/98	570.360	11:16	11.15	2.62	559.21


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MWEPAATS	12/03/98	570.360	09:23	10.69	0.46	559.67
PZ-03	01/02/98	468.370	16:00	NM	NA	NA
PZ-03	03/02/98	468.370	11:02	1.07	-1.07	467.30
PZ-03	04/08/98	468.370	10:50	1.28	-0.21	467.09
PZ-03	06/05/98	468.370	10:35	1.45	-0.17	466.92
PZ-03	08/05/98	468.370	11:30	1.86	-0.41	466.51
PZ-03	09/01/98	468.370	16:30	1.74	0.12	466.63
PZ-03	10/01/98	468.370	11:33	1.60	0.14	466.77
PZ-03	11/02/98	468.370	14:09	1.45	0.15	466.92
PZ-03	12/03/98	468.370	11:10	1.47	-0.02	466.90
PZ-04	01/02/98	452.890	16:20	1.84	NA	451.05
PZ-04	02/02/98	452.890	13:04	1.44	0.40	451.45
PZ-04	03/02/98	452.890	11:00	1.08	0.36	451.81
PZ-04	04/08/98	452.890	11:10	1.90	-0.82	450.99
PZ-04	06/05/98	452.890	10:16	2.24	-0.34	450.65
PZ-04	09/01/98	452.890	14:01	2.12	0.12	450.77
PZ-04	10/01/98	452.890	11:01	1.47	0.65	451.42
PZ-04	11/02/98	452.890	13:40	2.05	-0.58	450.84
PZ-04	12/03/98	452.890	10:46	1.58	0.47	451.31
PZ-05	01/02/98	474.650	15:15	4.71	NA	469.94
PZ-05	02/02/98	474.650	12:15	3.98	0.73	470.67
PZ-05	03/02/98	474.650	10:24	3.72	0.26	470.93
PZ-05	04/08/98	474.650	10:06	3.40	0.32	471.25
PZ-05	06/05/98	474.650	10:08	4.08	-0.68	470.57
PZ-05	07/01/98	474.650	12:40	3.70	0.38	470.95
PZ-05	08/04/98	474.650	14:43	3.74	-0.04	470.91
PZ-05	08/04/98	474.650	15:03	2.60	1.14	472.05
PZ-05	09/01/98	474.650	15:35	4.25	-1.65	470.40
PZ-05	10/01/98	474.650	10:34	4.32	-0.07	470.33
PZ-05	11/02/98	474.650	13:32	4.70	-0.38	469.95
PZ-05	12/03/98	474.650	10:33	4.73	-0.03	469.92
PZ-06	01/05/98	418.090	12:28	2.17	NA	415.92


(1) Change in Water Elevation since last reported measurement

D = Dry NA = Not Available

(2) Measurements Based on NGVD 1929

O = Obstructed NM = Not Measured

Water Level Monitoring Results
January 1998 through December 1998
1998 Annual Monitoring Report
Linemaster Switch Corporation
Woodstock, Connecticut

SITE	DATE	MP ELEVATION ⁽²⁾ (feet)	TIME	DEPTH TO WATER (feet)	 WATER ELEV. ⁽¹⁾ (feet)	WATER ELEV. ⁽²⁾ (feet)
PZ-06	02/02/98	418.090	12:40	2.74	-0.57	415.35
PZ-06	03/02/98	418.090	11:10	2.07	0.67	416.02
PZ-06	04/09/98	418.090	10:30	2.82	-0.75	415.27
PZ-06	06/05/98	418.090	10:30	3.09	-0.27	415.00
PZ-06	07/01/98	418.090	13:12	2.40	0.69	415.69
PZ-06	08/05/98	418.090	12:25	2.64	-0.24	415.45
PZ-06	09/01/98	418.090	15:47	2.25	0.39	415.84
PZ-06	10/01/98	418.090	11:22	2.37	-0.12	415.72
PZ-06	11/02/98	418.090	14:24	2.78	-0.41	415.31
PZ-06	12/03/98	418.090	11:27	2.85	-0.07	415.24
PZ-07	01/02/98	415.090	15:50	2.87	NA	412.22
PZ-07	02/02/98	415.090	12:38	1.91	0.96	413.18
PZ-07	03/02/98	415.090	11:13	1.72	0.19	413.37
PZ-07	04/09/98	415.090	10:27	1.94	-0.22	413.15
PZ-07	06/05/98	415.090	10:32	2.20	-0.26	412.89
PZ-07	07/01/98	415.090	13:14	1.61	0.59	413.48
PZ-07	08/05/98	415.090	12:00	2.51	-0.90	412.58
PZ-07	09/01/98	415.090	14:00	2.79	-0.28	412.30
PZ-07	10/01/98	415.090	11:25	3.39	-0.60	411.70
PZ-07	12/03/98	415.090	11:32	2.70	0.69	412.39
PZ-08	01/02/98	516.820	15:36	2.73	NA	514.09
PZ-08	03/02/98	516.820	10:00	0.74	1.99	516.08
PZ-08	04/08/98	516.820	09:30	1.52	-0.78	515.30
PZ-08	06/05/98	516.820	09:18	1.79	-0.27	515.03
PZ-08	07/01/98	516.820	12:15	NM	NA	NA
PZ-08	08/04/98	516.820	14:17	2.54	-2.54	514.28
PZ-08	10/01/98	516.820	10:14	1.73	0.81	515.09
PZ-08	11/02/98	516.820	12:01	1.72	0.01	515.10
PZ-08	12/03/98	516.820	10:12	1.60	0.12	515.22

(1) Change in Water Elevation since last reported measurement

D = Dry NA = Not Available

(2) Measurements Based on NGVD 1929

O = Obstructed NM = Not Measured



B

APPENDIX B

DEEP BEDROCK EXTRACTION WELLS SUMMARY OF DETECTED VOCs

Summary of Detected VOCs
 Deep Bedrock Extraction Wells
 Linemaster Switch Corporation
 Woodstock, Connecticut

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CONSTITUENT	(Units in ug/L)	SITE	GW10DB	GW10DB	GW10DB	GW10DB	GW10DB	GW10DB
		SAMPLE ID	354980105-08	224980203-06	257980302-06	257980409-15	166980501-08	156980604-40
		DATE	01/05/98	02/03/98	03/02/98	04/09/98	05/01/98	06/04/98
		RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Benzene			<100	2.8	2.8	<100	<50	<50
Dichlorodifluoromethane			<100	<200	<100	<100	<50	<500
Ethyl benzene			<100	9.2	12.	<100	<50	<50
Naphthalene			---	---	---	---	---	<50
Toluene			<100	46.	61.	<100	<50	<50
Trichloroethene			940	1700	1200	330	290	400
Xylenes			<100	7.8	11.	<100	<50	---
cis-1,2-Dichloroethene			10000	19000	16000	5800	5200	4700
trans-1,2-Dichloroethene			<100	<200	110	<100	<50	<50

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Limit_1 is used for results comparison. For RCL LISTALL +:

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Limit 1 is used for results comparison. For RCI_LISTALL+:

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Limit 1 is used for results comparison. For RCL LISTALL +:

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Summary of Detected VOCs
Deep Bedrock Extraction Wells
Linemaster Switch Corporation
Woodstock, Connecticut

CONSTITUENT	SITE	MW14DB	MW14DB	MW14DB	MW14DB	MW14DB	MW14DB
(Units in ug/L)	SAMPLE ID	166980501-03	156980604-38	144980702-18	144980805-02	286980902-05	223981001-04
	DATE	05/01/98	06/04/98	07/02/98	08/05/98	09/02/98	10/01/98
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Benzene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane		<1.0	<10.	<10.	<10.	<10.	<10.
Ethyl benzene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene		--	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes		<1.0	--	--	--	--	--
cis-1,2-Dichloroethene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Values represent total concentrations unless noted. -- Not detected.

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

Limit 1 is used for results comparison. For RCL LISTALL +:

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Limit 1 is used for results comparison For RCL LISTALL +-

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Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

Limit 1 is used for results comparison For RCL LISTALL+-

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[illegible]



C

APPENDIX C
DEEP BEDROCK MONITORING WELLS
SUMMARY OF DETECTED VOCs

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[illegible]

Summary of Detected VOCs
Deep Bedrock Monitoring Wells
Linemaster Switch Corporation
Woodstock, Connecticut

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[illegible]

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

Limit 1 is used for results comparison. For RCL LISTALL+-

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[illegible]

Summary of Detected VOCs
Deep Bedrock Monitoring Wells
Linemaster Switch Corporation
Woodstock, Connecticut

Page: 1D of 11

CONSTITUENT	(Units in ug/L)	SITE	MW11DB	MW11DB	MW12DB	MW12DB	MW12DB	MW12DB
		SAMPLE ID	223980811-50	257981110-85	257980421-03	156980602-16	223980811-53	257981110-87
		DATE	08/11/98	11/10/98	04/21/98	06/02/98	08/11/98	11/10/98
		RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Acetone			---	---	---	---	---	---
Methyl ethyl ketone			---	---	---	---	---	---
Trichloroethene			1.2	1.7	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene			3.1	4.4	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethene			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrahydrofuran			---	---	---	---	---	---

Values represent total concentrations unless noted otherwise. Method used: EPA 821-R-97-010.

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

Limit 1 is used for results comparison. For RCL LISTALL, +

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Limit 1 is used for results comparison For RCL LISTALL +-

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Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

Limit 1 is used for results comparison. For RCL LISTALL, +:

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[illegible]



D

APPENDIX D
SHALLOW BEDROCK MONITORING WELLS
SUMMARY OF DETECTED VOCs

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Limit 1 is used for results comparison. For RCL LISTALL+-

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[illegible]



E



recyclable
paper

APPENDIX E

UNCONSOLIDATED DEPOSITS MONITORING WELLS
SUMMARY OF DETECTED VOCs

Summary of Detected VOCs
Unconsolidated Deposits Monitoring Wells
Linemaster Switch Corporation
Woodstock, Connecticut

Page: 1A of 1H

CONSTITUENT	(Units in ug/l)	SITE	MW01T	MW02T	MW03T	MW04T	MW04T	MW04T
		SAMPLE ID	257981105-67	257981104-46	257981103-09	354980105-02	224980203-13	257980303-15
		DATE	11/05/98	11/04/98	11/03/98	01/05/98	02/03/98	03/03/98
		RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Methylene chloride			<0.50	<0.50	<0.50	<500	<2500	290
1,1-Dichloroethane			<0.50	<0.50	<0.50	<150	<750	<75
Chloroform			<0.50	<0.50	0.75	<150	<750	<75
Carbon tetrachloride			<0.50	<0.50	0.92	<100	<500	<50
1,2-Dichloropropane			<0.50	<0.50	<0.50	<350	<1800	<180
Tetrachloroethene			<0.50	<0.50	<0.50	<150	<750	180
1,2-Dichloroethane			<0.50	<0.50	<0.50	<150	<750	<75
Toluene			<0.50	<0.50	<0.50	<150	<750	<75
1,1-Dichloroethene			<0.50	<0.50	<0.50	<150	<750	<75
trans-1,2-Dichloroethene			<0.50	<0.50	<0.50	<150	<750	<75
Trichloroethene			8.2	2.0	6.0	23000	17000	20000
cis-1,2-Dichloroethene			9.1	<0.50	<0.50	420	<500	420

Values represent total concentrations unless noted < = Not detected at indicated reporting limit -- = Not analyzed

Limit 1 is used for results comparison For RCL 8260B-ALP

Page: 1B of 1H

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

Limit 1 is used for results comparison For RCL 8260B-ALP

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Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

Limit 1 is used for results comparison. For RCL 8260B-ALP

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CONSTITUENT	(Units in ug/l)	SITE	MW26T	MW26T	MW26T	MW26T	MW26T	MW26T
		SAMPLE ID	354980105-01	224980203-11	257980303-16	257980408-06	144980805-11	257981105-68
		DATE	01/05/98	02/03/98	03/03/98	04/08/98	08/05/98	11/05/98
		RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Methylene chloride			<25	<25000	<25000	<25000	<25000	<25000
1,1-Dichloroethane			<7.5	<7500	<7500	<7500	<7500	<7500
Chloroform			<7.5	<7500	<7500	<7500	<7500	<7500
Carbon tetrachloride			<5.0	<5000	<5000	<5000	<5000	<5000
1,2-Dichloropropane			<18	<18000	<18000	<18000	<18000	<18000
Tetrachloroethene			<7.5	<7500	<7500	<7500	<7500	<7500
1,2-Dichloroethane			<7.5	<7500	<7500	<7500	<7500	<7500
Toluene			<7.5	8000	9100	<7500	<7500	10000
1,1-Dichloroethene			<7.5	<7500	<7500	<7500	<7500	<7500
trans-1,2-Dichloroethene			<7.5	<7500	<7500	<7500	<7500	<7500
Trichloroethene			3400	640000	710000	640000	580000	710000
cis-1,2-Dichloroethene			<5.0	<5000	<5000	<5000	<5000	<5000

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

Limit 1 is used for results comparison For RCL 8260B-ALP

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Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

Limit 1 is used for results comparison. For RCL 8260B-ALP

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CONSTITUENT	SITE	MW30TS	MW31T	MW33T	MW33T	MW33T	MW34T
(Units in ug/l)	SAMPLE ID	257981103-11	257981104-48	257980408-09	144980807-41	257981102-05	257981104-50
	DATE	11/03/98	11/04/98	04/08/98	08/07/98	11/02/98	11/04/98
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Methylene chloride		<0.50	<6.2	<1000	<250	<250	<0.50
1,1-Dichloroethane		<0.50	<6.2	<300	<75	<250	<0.50
Chloroform		<0.50	<6.2	<300	<75	<250	<0.50
Carbon tetrachloride		<0.50	<6.2	<200	<50	<250	<0.50
1,2-Dichloropropane		<0.50	<6.2	<700	<180	<250	<0.50
Tetrachloroethene		<0.50	<6.2	<300	<75	<250	<0.50
1,2-Dichloroethane		<0.50	<6.2	<300	<75	<250	<0.50
Toluene		<0.50	<6.2	<300	<75	<250	<0.50
1,1-Dichloroethene		<0.50	<6.2	<300	<75	<250	<0.50
trans-1,2-Dichloroethene		<0.50	<6.2	<300	<75	<250	<0.50
Trichloroethene		10.	190	6300	4400	4700	1.2
cis-1,2-Dichloroethene		<0.50	93.	290	260	290	<0.50

Values represent total concentrations unless noted < =Not detected at indicated reporting limit --- = Not analyzed

Limit 1 is used for results comparison For RCL 8260B-ALP

Page: 1H of 1H

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

Limit 1 is used for results comparison. For RCL 8260B-ALP



F

APPENDIX F

RESIDENTIAL SUPPLY WELLS
SUMMARY OF DETECTED VOCs

Page: 1A of 1R

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Limit 1 is used for results comparison For RCL 524.2-ALP

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[illegible]

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Limit 1 is used for results comparison For RCL 524.2-ALP

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[illegible]

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Limit 1 is used for results comparison For RCL 524.2-ALP

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[illegible]

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Limit 1 is used for results comparison. For RCL 524.2-ALP

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[illegible]

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Limit 1 is used for results comparison For RCL 524.2-ALP

Summary of Detected VOCs
Residential Water Supply Wells
Linemaster Switch Corporation
Woodstock, Connecticut

Page: 1K of 1R

CONSTITUENT	(Units in ug/l)	SITE	GW24DB	GW250B	GW250B	GW250B	GW250B	GW26
		SAMPLE ID	144980806-45	257980304-35	156980604-50	286980903-38	225981201-01	286980204-28
		DATE	08/07/98	03/04/98	06/04/98	09/03/98	12/01/98	02/04/98
		RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Dichloromethane			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene			<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Page: 1L of 1R

Limit 1 is used for results comparison For RCL 524.2-ALP

Page: 1M of 1R

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Limit 1 is used for results comparison For RCL 524.2-ALP

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Limit 1 is used for results comparison For RCL 524.2-ALP

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Page: 1R of 1R

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

Limit 1 is used for results comparison For RCL 524.2-ALP



G



APPENDIX G
SURFACE WATER SAMPLING LOCATIONS
SUMMARY OF DETECTED VOCs

Page: 1A of 1H

[illegible]

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Limit 1 is used for results comparison For RCL 524.2-ALP

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[illegible]

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Values represent total concentrations unless noted < =Not detected at indicated reporting limit ---=Not analyzed

Limit 1 is used for results comparison For RCL 524.2-ALP

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Limit 1 is used for results comparison For RCL 524.2-ALP

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[illegible]

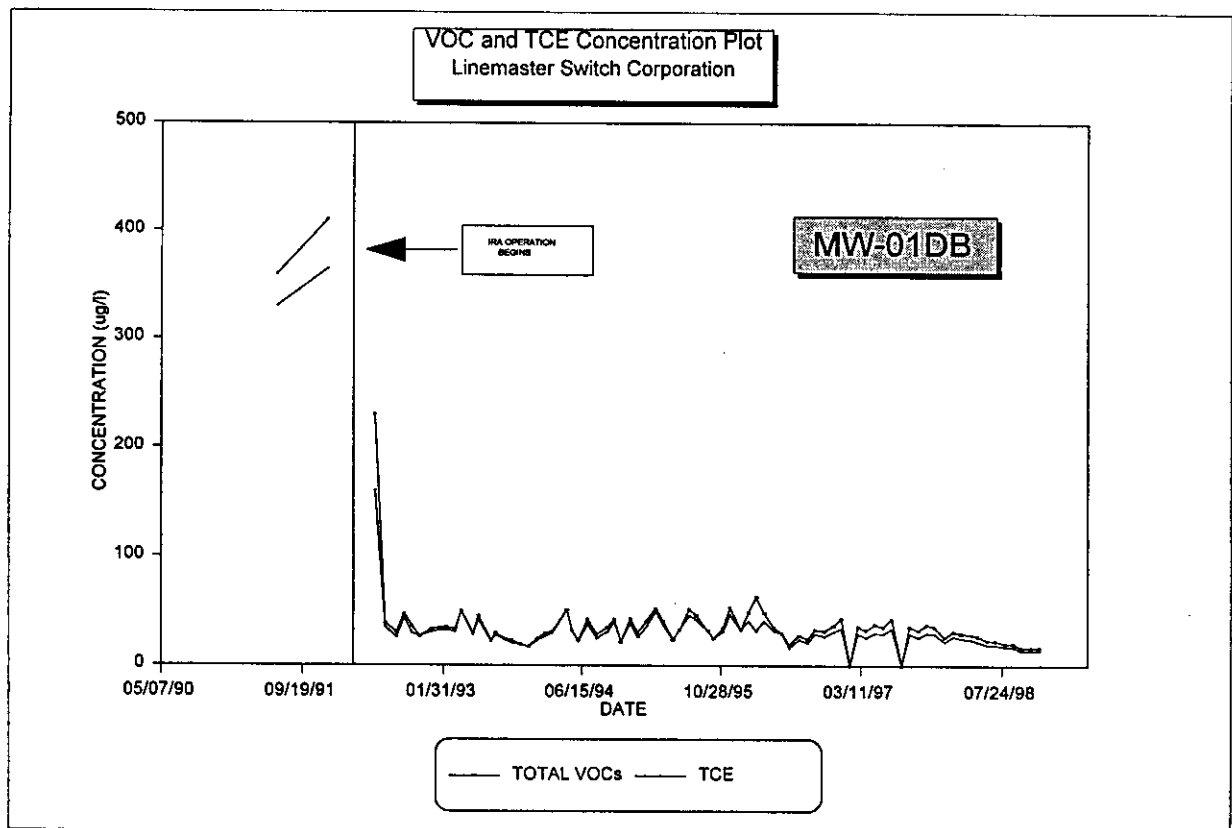
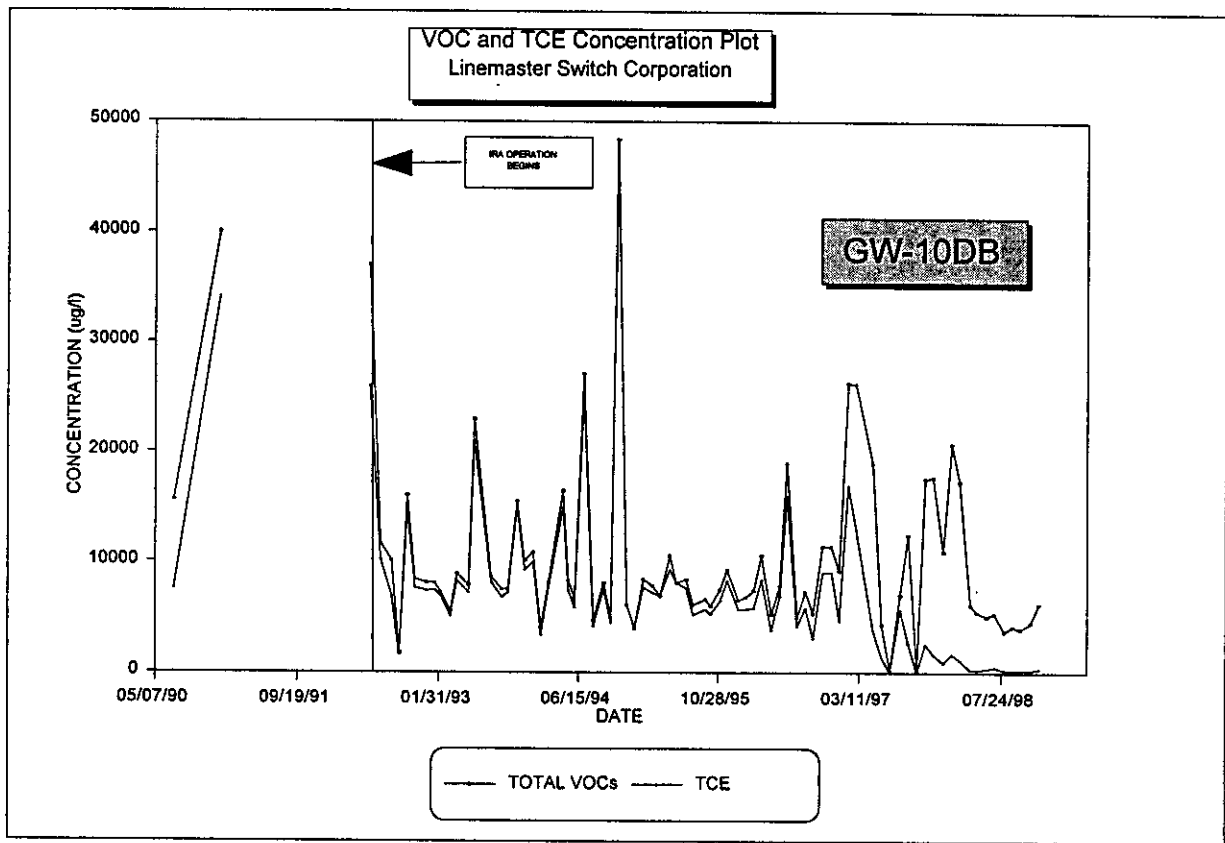
Page: 1H of 1H

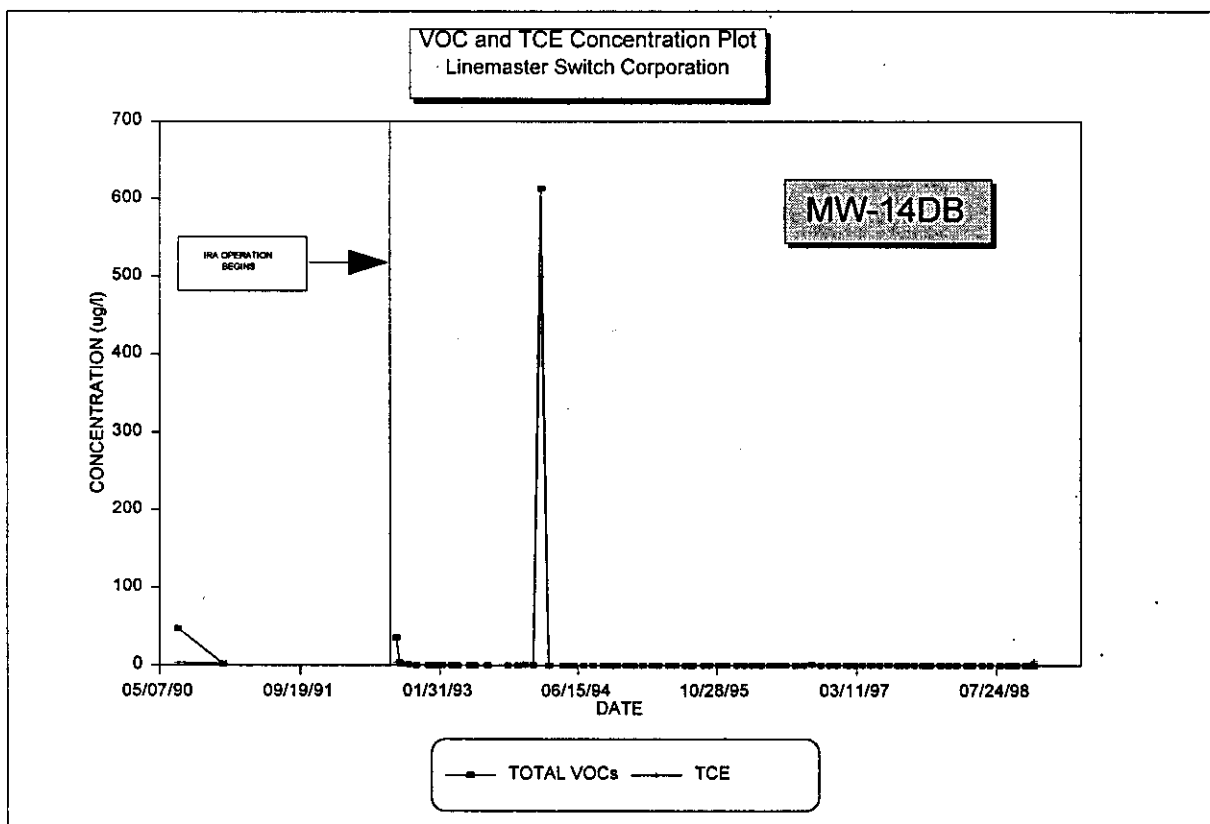
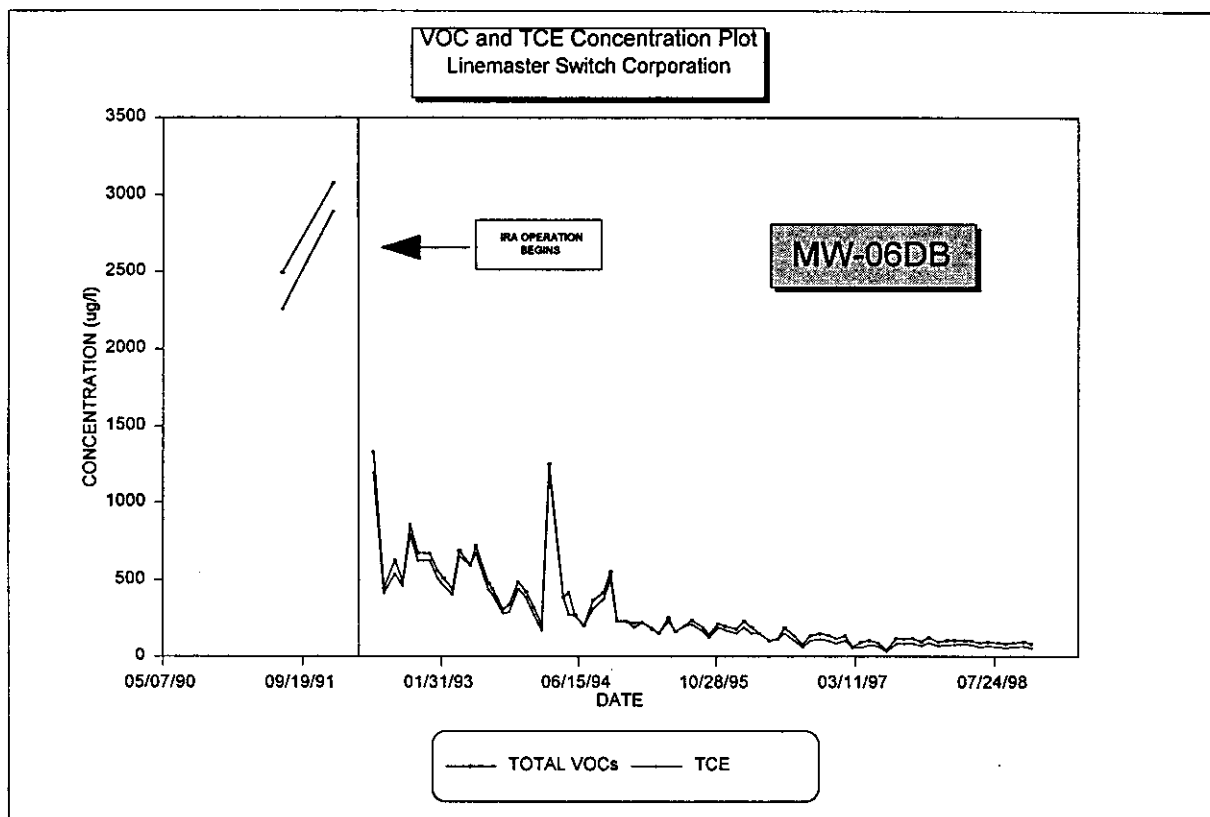
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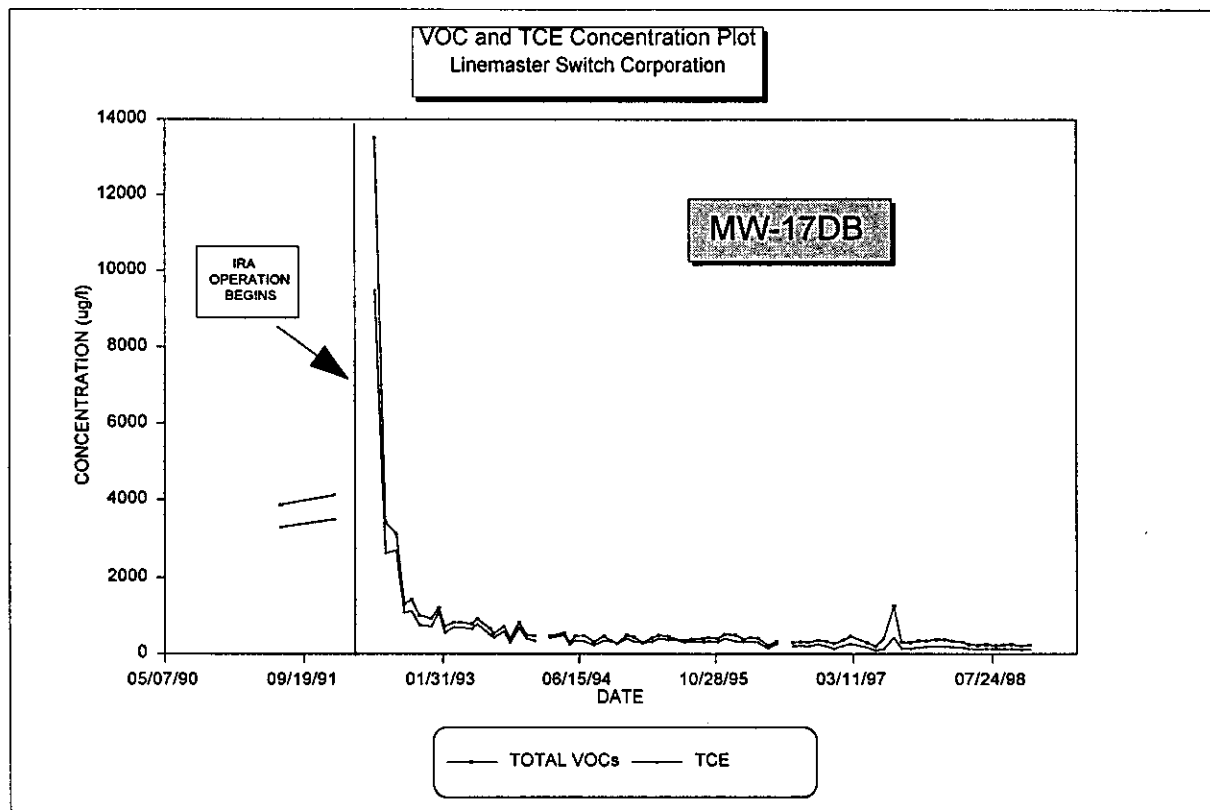
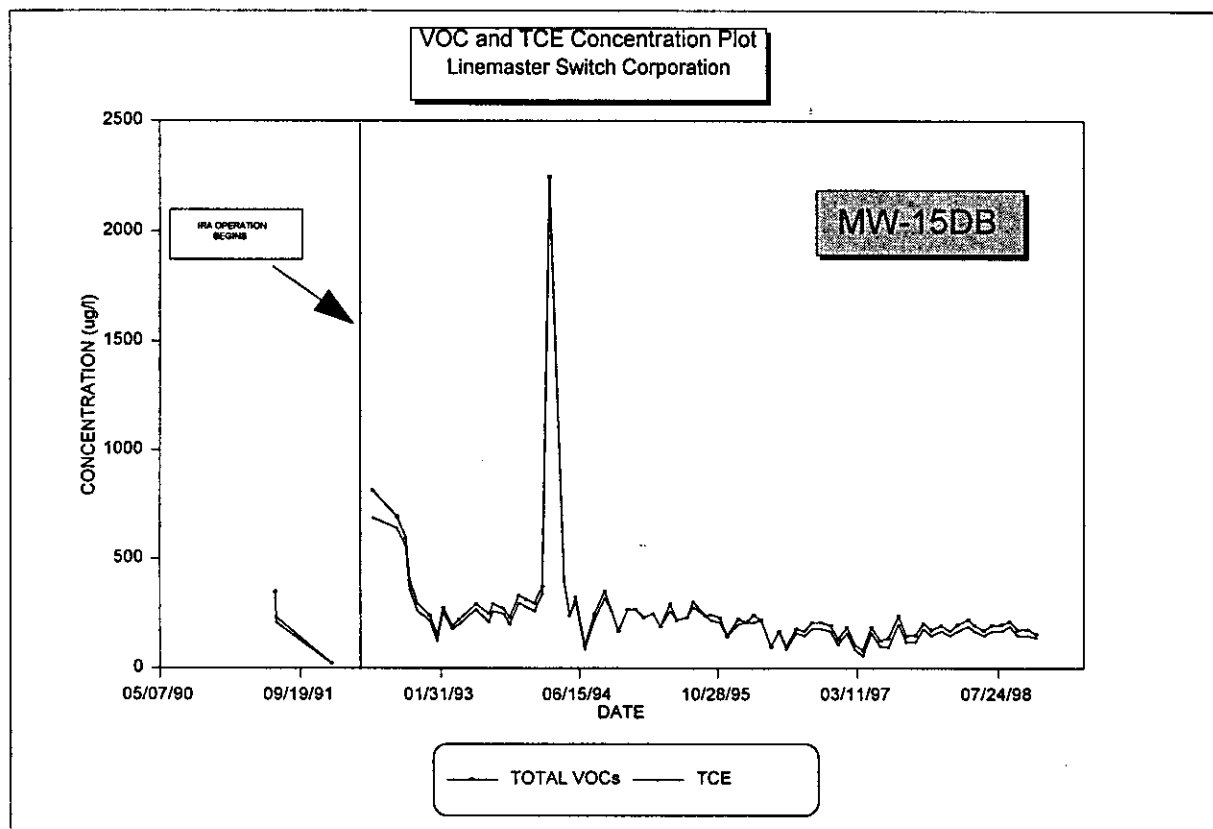


H

APPENDIX H
TOTAL VOC AND TCE CONCENTRATION PLOTS
EXTRACTION WELLS



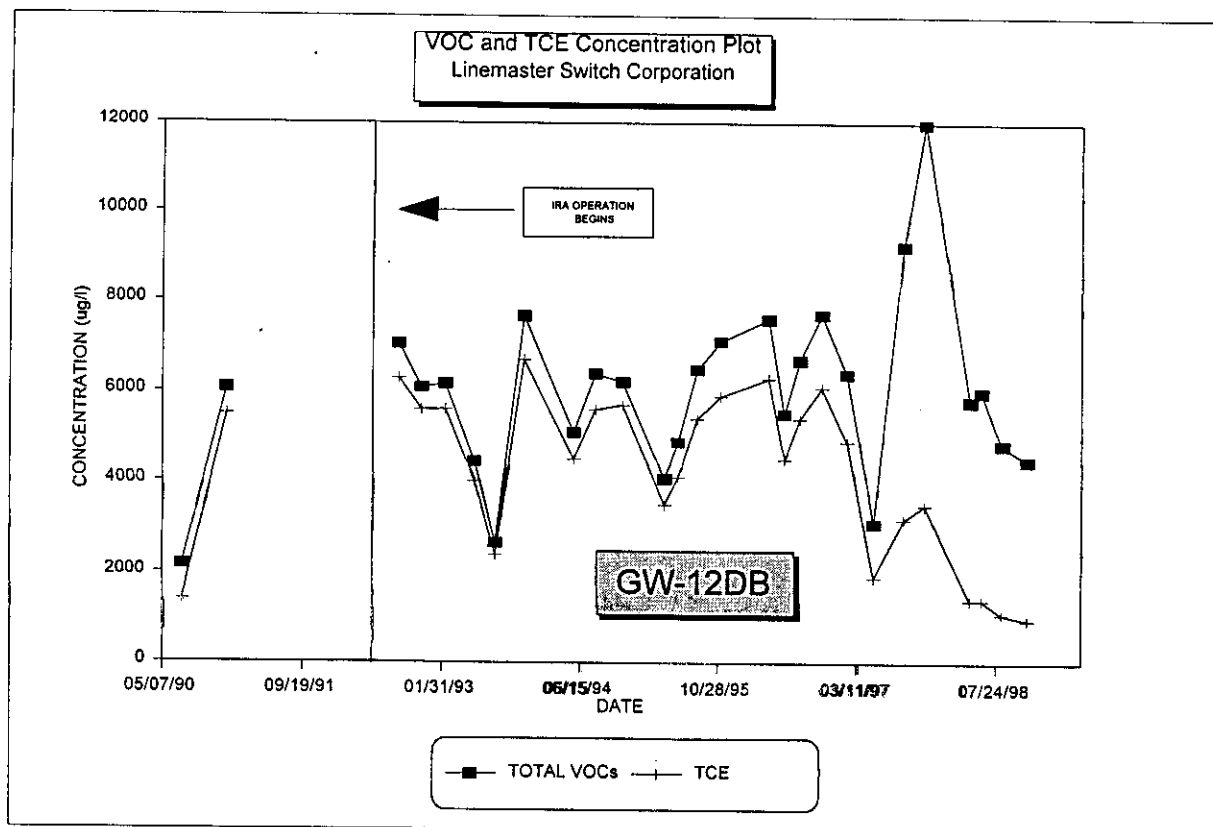
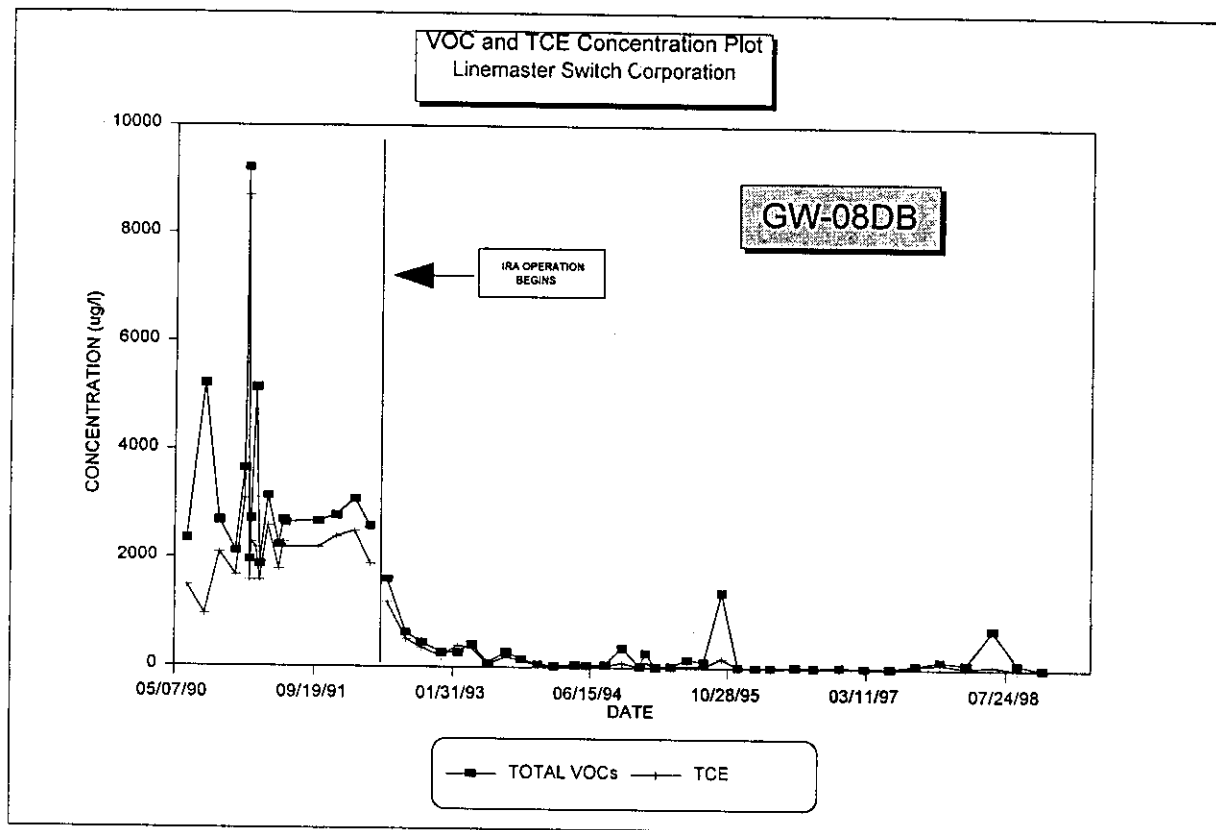


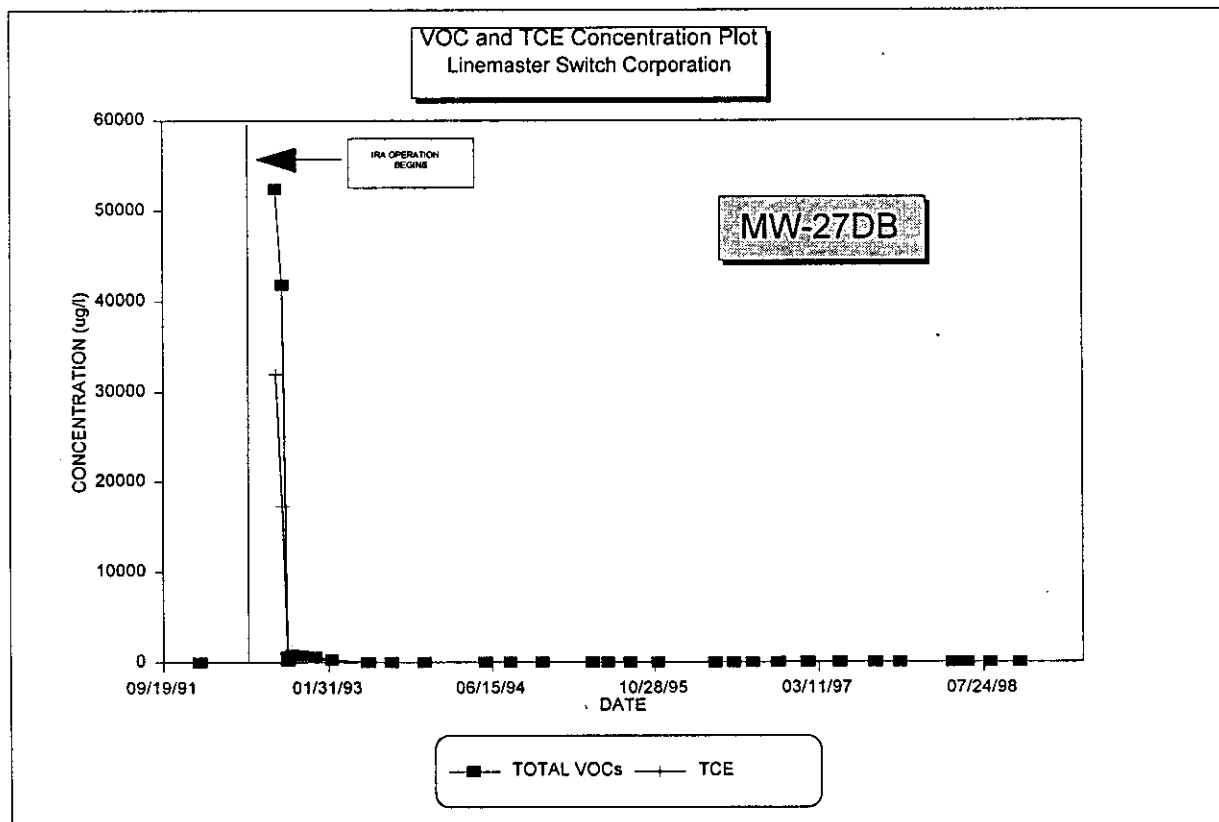
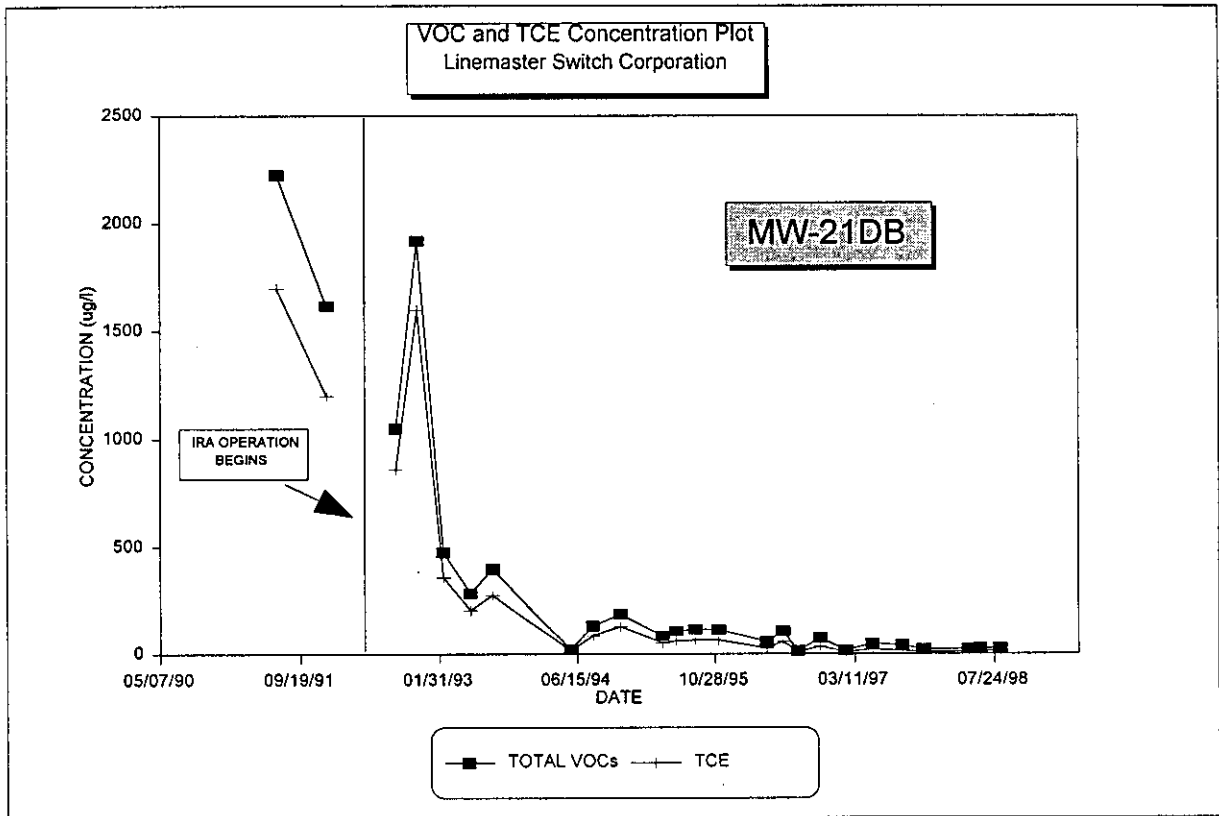


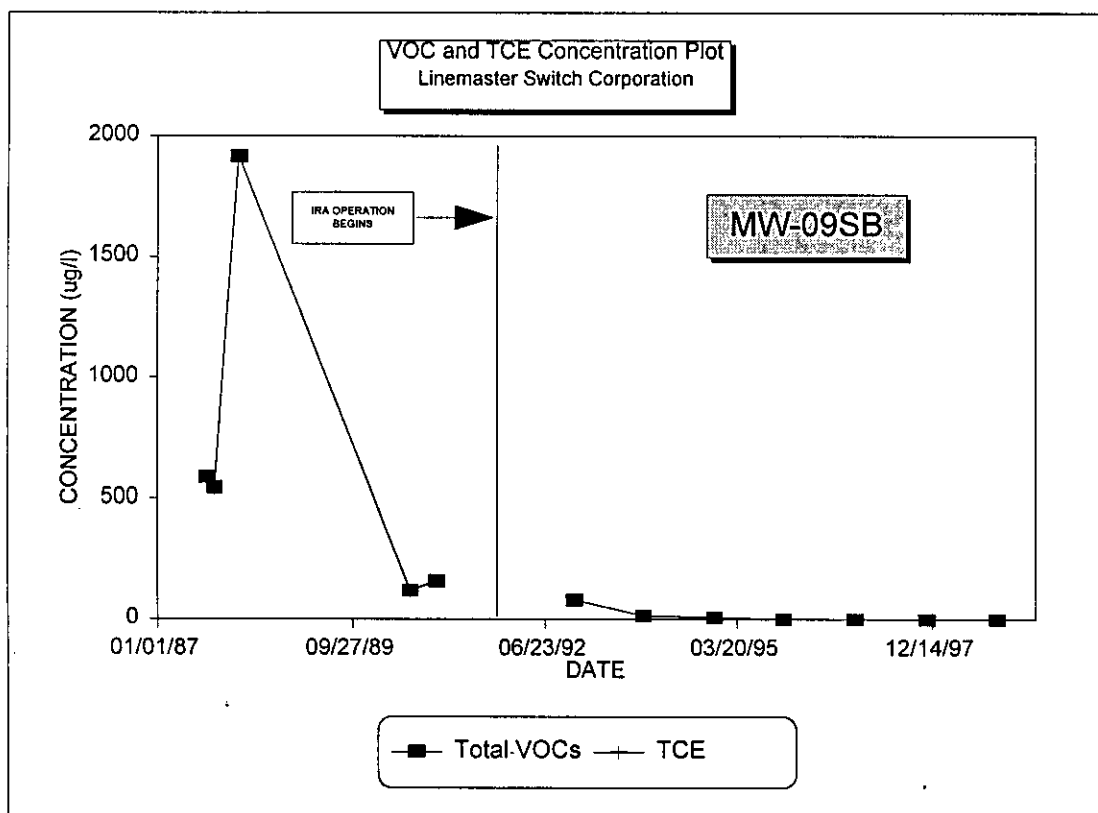
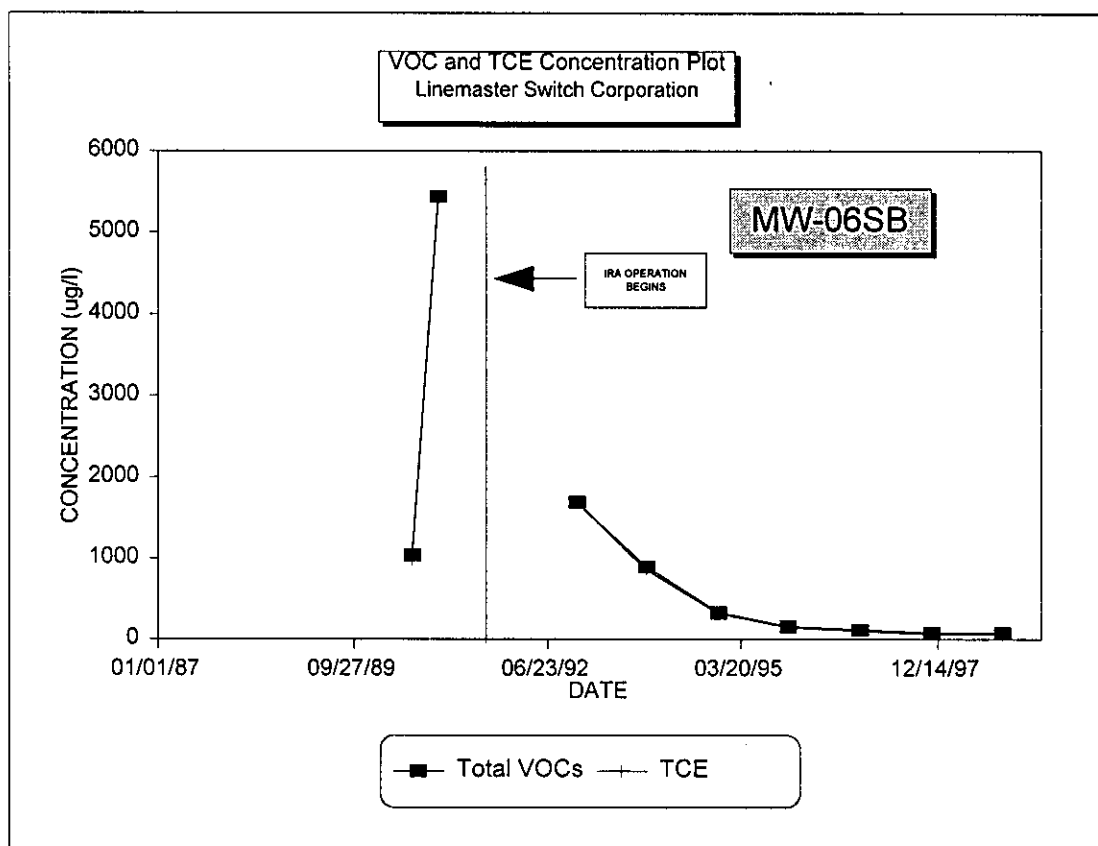


APPENDIX I

TOTAL VOC AND TCE CONCENTRATION PLOTS
MONITORING WELLS WITH GREATER THAN 1000 ug/l
TOTAL VOCs DURING ANY SAMPLING EVENT







VOC and TCE Concentration Plot
Linemaster Switch Corporation

